HCS Arterial Planning Results – 2025 P.M. Peak Hour

Exterior Roadways

Aquarius Drive

PLANNING ANALYSIS

Analyst:	Kondala Rao Mantri
Agency/Co.:	Stanley Consultants, Inc
Date Performed:	5/9/2006
Analysis Time Period:	P.M. Peak Hour
Urban Street:	Aquarius Drive
Direction of Travel:	
Jurisdiction:	Mohave County, AZ
Analysis Year:	2025
Project ID:	Golden Valley Ranch Master Traffic Study

Traffic Characteristics

Annual average daily traffic, AADT	26000	vpd
Planning analysis hour factor, K	0.090	
Directional distribution factor, D	0.500	
Peak-hour factor, PHF	0.900	
Adjusted saturation flow rate	1800	pcphgpl
Percent turns from exclusive lanes	50	%

Roadway Characteristics

Number of through lanes one direction, N	2	
Free flow speed, FFS	40	mph
Urban class	2	
Section length	4.60	miles
Median	No	
Left-turn bays	Yes	

Signal Characteristics

Signalized intersections	2	
Arrival type, AT	3	
Signal type (k = 0.5 for planning)	Actuated	
Cycle length, C	90.0	sec
Effective green ratio, g/C	0.600	

Results

Annual average daily traffic, AADT	26000	vpd
Two-way hourly volume	2340	vph
Hourly directional volume	1170	vph
Through-volume 15-min. flow rate	650	v
Running time	414.0	sec
v/c ratio	0.32	
Through capacity	2050	vph
Progression factor, PF	1.000	
Uniform delay	8.9	sec
Filtering/metering factor, I	0.958	
Incremental delay	0.4	sec
Control delay	9.3	sec/v
Total travel speed, Sa	38.3	mph
Total urban street LOS	A	

Aztec Road

PLANNING ANALYSIS

Analyst:	Kondala Rao Mantri
Agency/Co.:	Stanley Consultants, Inc.
Date Performed:	5/9/2006
Analysis Time Period:	P.M. Peak Hour
Urban Street:	Aztec Road
Direction of Travel:	
Jurisdiction:	Mohave County, AZ
Analysis Year:	2025
Project ID:	Golden Valley Ranch Master Traffic Study

Traffic Characteristics

Annual average daily traffic, AADT	44000	vpd
Planning analysis hour factor, K	0.090	
Directional distribution factor, D	0.500	
Peak-hour factor, PHF	0.900	
Adjusted saturation flow rate	1800	pcphgpl
Percent turns from exclusive lanes	50	%

Roadway Characteristics

Number of through lanes one direction, N	3	
Free flow speed, FFS	45	mph
Urban class	2	
Section length	4.40	miles
Median	Yes	
Left-turn bays	Yes	

Signal Characteristics

Signalized intersections	2	
Arrival type, AT	3	
Signal type (k = 0.5 for planning)	Actuated	
Cycle length, C	90.0	sec
Effective green ratio, g/C	0.600	

Results

Annual average daily traffic, AADT	44000	vpd
Two-way hourly volume	3960	vph
Hourly directional volume	1980	vph
Through-volume 15-min. flow rate	1100	v
Running time	352.0	sec
v/c ratio	0.34	
Through capacity	3240	vph
Progression factor, PF	1.000	
Uniform delay	9.0	sec
Filtering/metering factor, I	0.950	
Incremental delay	0.3	sec
Control delay	9.3	sec/v
Total travel speed, Sa	42.7	mph
Total urban street LOS	A	

Bacobi Road

PLANNING ANALYSIS

Analyst:	Kondala Rao Mantri
Agency/Co.:	Stanley Consultants, Inc
Date Performed:	5/9/2006
Analysis Time Period:	P.M. Peak Hour
Urban Street:	Bacobi Road
Direction of Travel:	
Jurisdiction:	Mohave County, AZ
Analysis Year:	2025
Project ID:	Golden Valley Ranch Master Traffic Study

Traffic Characteristics

Annual average daily traffic, AADT	37000	vpd
Planning analysis hour factor, K	0.090	
Directional distribution factor, D	0.500	
Peak-hour factor, PHF	0.900	
Adjusted saturation flow rate	1800	pcphgpl
Percent turns from exclusive lanes	50	%

Roadway Characteristics

Number of through lanes one direction, N	2	
Free flow speed, FFS	45	mph
Urban class	2	
Section length	4.40	miles
Median	Yes	
Left-turn bays	Yes	

Signal Characteristics

Signalized intersections	2	
Arrival type, AT	3	
Signal type (k = 0.5 for planning)	Actuated	
Cycle length, C	90.0	sec
Effective green ratio, g/C	0.600	

Results

Annual average daily traffic, AADT	37000	vpd
Two-way hourly volume	3330	vph
Hourly directional volume	1665	vph
Through-volume 15-min. flow rate	925	v
Running time	352.0	sec
v/c ratio	0.43	
Through capacity	2160	vph
Progression factor, PF	1.000	
Uniform delay	9.7	sec
Filtering/metering factor, I	0.906	
Incremental delay	0.6	sec
Control delay	10.3	sec/v
Total travel speed, Sa	42.5	mph
Total urban street LOS	A	

Colorado Road

PLANNING ANALYSIS

Analyst:	Kondala Rao Mantri
Agency/Co.:	Stanley Consultants, Inc
Date Performed:	5/9/2006
Analysis Time Period:	P.M. Peak Hour
Urban Street:	Colorado Road
Direction of Travel:	
Jurisdiction:	Mohave County, AZ
Analysis Year:	2025
Project ID:	Golden Valley Ranch Master Traffic Study

Traffic Characteristics

Annual average daily traffic, AADT	20000	vpd
Planning analysis hour factor, K	0.090	
Directional distribution factor, D	0.500	
Peak-hour factor, PHF	0.900	
Adjusted saturation flow rate	1800	pcphgpl
Percent turns from exclusive lanes	50	%

Roadway Characteristics

Number of through lanes one direction, N	2	
Free flow speed, FFS	45	mph
Urban class	2	
Section length	4.60	miles
Median	Yes	
Left-turn bays	Yes	

Signal Characteristics

Signalized intersections	2	
Arrival type, AT	3	
Signal type (k = 0.5 for planning)	Actuated	
Cycle length, C	90.0	sec
Effective green ratio, g/C	0.600	

Results

Annual average daily traffic, AADT	20000	vpd
Two-way hourly volume	1800	vph
Hourly directional volume	900	vph
Through-volume 15-min. flow rate	500	v
Running time	368.0	sec
v/c ratio	0.23	
Through capacity	2160	vph
Progression factor, PF	1.000	
Uniform delay	8.4	sec
Filtering/metering factor, I	0.982	
Incremental delay	0.2	sec
Control delay	8.6	sec/v
Total travel speed, Sa	43.0	mph
Total urban street LOS	A	

Sacramento Road

PLANNING ANALYSIS

Analyst:	Kondala Rao Mantri
Agency/Co.:	Stanley Consultants, Inc
Date Performed:	5/9/2006
Analysis Time Period:	P.M. Peak Hour
Urban Street:	Sacramento Road
Direction of Travel:	
Jurisdiction:	Mohave County, AZ
Analysis Year:	2025
Project ID:	Golden Valley Ranch Master Traffic Study

Traffic Characteristics

Annual average daily traffic, AADT	18000	vpd
Planning analysis hour factor, K	0.090	
Directional distribution factor, D	0.500	
Peak-hour factor, PHF	0.900	
Adjusted saturation flow rate	1800	pcphgpl
Percent turns from exclusive lanes	50	%

Roadway Characteristics

Number of through lanes one direction, N	2	
Free flow speed, FFS	40	mph
Urban class	2	
Section length	5.00	miles
Median	Yes	
Left-turn bays	Yes	

Signal Characteristics

Signalized intersections	2	
Arrival type, AT	3	
Signal type (k = 0.5 for planning)	Actuated	
Cycle length, C	90.0	sec
Effective green ratio, g/C	0.600	

Results

Annual average daily traffic, AADT	18000	vpd
Two-way hourly volume	1620	vph
Hourly directional volume	810	vph
Through-volume 15-min. flow rate	450	v
Running time	450.0	sec
v/c ratio	0.21	
Through capacity	2160	vph
Progression factor, PF	1.000	
Uniform delay	8.2	sec
Filtering/metering factor, I	0.986	
Incremental delay	0.2	sec
Control delay	8.4	sec/v
Total travel speed, Sa	38.6	mph
Total urban street LOS	A	

Shinarump Drive

PLANNING ANALYSIS

Analyst:	Kondala Rao Mantri
Agency/Co.:	Stanley Consultants, Inc
Date Performed:	5/9/2006
Analysis Time Period:	P.M. Peak Hour
Urban Street:	Shinarump Drive
Direction of Travel:	
Jurisdiction:	Mohave County, AZ
Analysis Year:	2025
Project ID:	Golden Valley Ranch Master Traffic Study

Traffic Characteristics

Annual average daily traffic, AADT	26000	vpd
Planning analysis hour factor, K	0.090	
Directional distribution factor, D	0.500	
Peak-hour factor, PHF	0.900	
Adjusted saturation flow rate	1800	pcphgpl
Percent turns from exclusive lanes	50	%

Roadway Characteristics

Number of through lanes one direction, N	3	
Free flow speed, FFS	45	mph
Urban class	2	
Section length	5.00	miles
Median	Yes	
Left-turn bays	Yes	

Signal Characteristics

Signalized intersections	2	
Arrival type, AT	3	
Signal type (k = 0.5 for planning)	Actuated	
Cycle length, C	90.0	sec
Effective green ratio, g/C	0.600	

Results

Annual average daily traffic, AADT	26000	vpd
Two-way hourly volume	2340	vph
Hourly directional volume	1170	vph
Through-volume 15-min. flow rate	650	v
Running time	400.0	sec
v/c ratio	0.20	
Through capacity	3240	vph
Progression factor, PF	1.000	
Uniform delay	8.2	sec
Filtering/metering factor, I	0.988	
Incremental delay	0.1	sec
Control delay	8.3	sec/v
Total travel speed, Sa	43.2	mph
Total urban street LOS	A	

Tombstone Trail

PLANNING ANALYSIS

Analyst:	Kondala Rao Mantri
Agency/Co.:	Stanley Consultants, Inc
Date Performed:	5/9/2006
Analysis Time Period:	P.M. Peak Hour
Urban Street:	Tombstone Trail
Direction of Travel:	
Jurisdiction:	Mohave County, AZ
Analysis Year:	2025
Project ID:	Golden Valley Ranch Master Traffic Study

Traffic Characteristics

Annual average daily traffic, AADT	8000	vpd
Planning analysis hour factor, K	0.090	
Directional distribution factor, D	0.500	
Peak-hour factor, PHF	0.900	
Adjusted saturation flow rate	1800	pcphgpl
Percent turns from exclusive lanes	50	%

Roadway Characteristics

Number of through lanes one direction, N	2	
Free flow speed, FFS	40	mph
Urban class	2	
Section length	8.00	miles
Median	Yes	
Left-turn bays	Yes	

Signal Characteristics

Signalized intersections	2	
Arrival type, AT	3	
Signal type (k = 0.5 for planning)	Actuated	
Cycle length, C	90.0	sec
Effective green ratio, g/C	0.600	

Results

Annual average daily traffic, AADT	8000	vpd
Two-way hourly volume	720	vph
Hourly directional volume	360	vph
Through-volume 15-min. flow rate	200	v
Running time	720.0	sec
v/c ratio	0.09	
Through capacity	2160	vph
Progression factor, PF	1.000	
Uniform delay	7.6	sec
Filtering/metering factor, I	0.998	
Incremental delay	0.1	sec
Control delay	7.7	sec/v
Total travel speed, Sa	39.2	mph
Total urban street LOS	A	

Interior Roadways

Aztec Road Extension

PLANNING ANALYSIS

Analyst:	Kondala Rao Mantri
Agency/Co.:	Stanley Consultants, Inc
Date Performed:	5/9/2006
Analysis Time Period:	P.M. Peak Hour
Urban Street:	Aztec Road Extension
Direction of Travel:	
Jurisdiction:	Mohave County, AZ
Analysis Year:	2025
Project ID:	Golden Valley Ranch Master Traffic Study

Traffic Characteristics

Annual average daily traffic, AADT	41000	vpd
Planning analysis hour factor, K	0.090	
Directional distribution factor, D	0.500	
Peak-hour factor, PHF	0.900	
Adjusted saturation flow rate	1800	pcphgpl
Percent turns from exclusive lanes	50	%

Roadway Characteristics

Number of through lanes one direction, N	3	
Free flow speed, FFS	45	mph
Urban class	2	
Section length	2.30	miles
Median	Yes	
Left-turn bays	Yes	

Signal Characteristics

Signalized intersections	2	
Arrival type, AT	3	
Signal type (k = 0.5 for planning)	Actuated	
Cycle length, C	90.0	sec
Effective green ratio, g/C	0.600	

Results

Annual average daily traffic, AADT	41000	vpd
Two-way hourly volume	3690	vph
Hourly directional volume	1845	vph
Through-volume 15-min. flow rate	1025	v
Running time	184.0	sec
v/c ratio	0.32	
Through capacity	3240	vph
Progression factor, PF	1.000	
Uniform delay	8.9	sec
Filtering/metering factor, I	0.958	
Incremental delay	0.2	sec
Control delay	9.1	sec/v
Total travel speed, Sa	40.9	mph
Total urban street LOS	A	

Bacobi Road Extension

PLANNING ANALYSIS

Analyst:	Kondala Rao Mantri
Agency/Co.:	Stanley Consultants, Inc
Date Performed:	5/9/2006
Analysis Time Period:	P.M. Peak Hour
Urban Street:	Bacobi Road Extension
Direction of Travel:	
Jurisdiction:	Mohave County, AZ
Analysis Year:	2025
Project ID:	Golden Valley Ranch Master Traffic Study

Traffic Characteristics

Annual average daily traffic, AADT	40000	vpd
Planning analysis hour factor, K	0.090	
Directional distribution factor, D	0.500	
Peak-hour factor, PHF	0.900	
Adjusted saturation flow rate	1800	pcphgpl
Percent turns from exclusive lanes	50	%

Roadway Characteristics

Number of through lanes one direction, N	2	
Free flow speed, FFS	35	mph
Urban class	3	
Section length	0.60	miles
Median	No	
Left-turn bays	Yes	

Signal Characteristics

Signalized intersections	2	
Arrival type, AT	3	
Signal type (k = 0.5 for planning)	Actuated	
Cycle length, C	90.0	sec
Effective green ratio, g/C	0.600	

Results

Annual average daily traffic, AADT	40000	vpd
Two-way hourly volume	3600	vph
Hourly directional volume	1800	vph
Through-volume 15-min. flow rate	1000	v
Running time	67.2	sec
v/c ratio	0.49	
Through capacity	2050	vph
Progression factor, PF	1.000	
Uniform delay	10.2	sec
Filtering/metering factor, I	0.867	
Incremental delay	0.7	sec
Control delay	10.9	sec/v
Total travel speed, Sa	24.3	mph
Total urban street LOS	B	

Centennial Road Extension

PLANNING ANALYSIS

Analyst:	Kondala Rao Mantri
Agency/Co.:	Stanley Consultants, Inc
Date Performed:	5/9/2006
Analysis Time Period:	P.M. Peak Hour
Urban Street:	Centennial Road Extension
Direction of Travel:	
Jurisdiction:	Mohave County, AZ
Analysis Year:	2025
Project ID:	Golden Valley Ranch Master Traffic Study

Traffic Characteristics

Annual average daily traffic, AADT	30000	vpd
Planning analysis hour factor, K	0.090	
Directional distribution factor, D	0.500	
Peak-hour factor, PHF	0.900	
Adjusted saturation flow rate	1800	pcphgpl
Percent turns from exclusive lanes	50	%

Roadway Characteristics

Number of through lanes one direction, N	2	
Free flow speed, FFS	35	mph
Urban class	3	
Section length	1.00	miles
Median	Yes	
Left-turn bays	Yes	

Signal Characteristics

Signalized intersections	2	
Arrival type, AT	3	
Signal type (k = 0.5 for planning)	Actuated	
Cycle length, C	90.0	sec
Effective green ratio, g/C	0.600	

Results

Annual average daily traffic, AADT	30000	vpd
Two-way hourly volume	2700	vph
Hourly directional volume	1350	vph
Through-volume 15-min. flow rate	750	v
Running time	103.0	sec
v/c ratio	0.35	
Through capacity	2160	vph
Progression factor, PF	1.000	
Uniform delay	9.1	sec
Filtering/metering factor, I	0.947	
Incremental delay	0.4	sec
Control delay	9.5	sec/v
Total travel speed, Sa	29.5	mph
Total urban street LOS	B	

Cerbat Road Extension

PLANNING ANALYSIS

Analyst:	Kondala Rao Mantri
Agency/Co.:	Stanley Consultants, Inc
Date Performed:	5/9/2006
Analysis Time Period:	P.M. Peak Hour
Urban Street:	Cerbat Road Extension
Direction of Travel:	
Jurisdiction:	Mohave County, AZ
Analysis Year:	2025
Project ID:	Golden Valley Ranch Master Traffic Study

Traffic Characteristics

Annual average daily traffic, AADT	10000	vpd
Planning analysis hour factor, K	0.090	
Directional distribution factor, D	0.500	
Peak-hour factor, PHF	0.900	
Adjusted saturation flow rate	1800	pcphgpl
Percent turns from exclusive lanes	50	%

Roadway Characteristics

Number of through lanes one direction, N	2	
Free flow speed, FFS	35	mph
Urban class	3	
Section length	1.00	miles
Median	No	
Left-turn bays	Yes	

Signal Characteristics

Signalized intersections	2	
Arrival type, AT	3	
Signal type (k = 0.5 for planning)	Actuated	
Cycle length, C	90.0	sec
Effective green ratio, g/C	0.600	

Results

Annual average daily traffic, AADT	10000	vpd
Two-way hourly volume	900	vph
Hourly directional volume	450	vph
Through-volume 15-min. flow rate	250	v
Running time	103.0	sec
v/c ratio	0.12	
Through capacity	2050	vph
Progression factor, PF	1.000	
Uniform delay	7.8	sec
Filtering/metering factor, I	0.997	
Incremental delay	0.1	sec
Control delay	7.9	sec/v
Total travel speed, Sa	30.3	mph
Total urban street LOS	A	

East Loop Road

PLANNING ANALYSIS

Analyst:	Kondala Rao Mantri
Agency/Co.:	Stanley Consultants, Inc
Date Performed:	5/9/2006
Analysis Time Period:	P.M. Peak Hour
Urban Street:	East Loop Road
Direction of Travel:	
Jurisdiction:	Mohave County, AZ
Analysis Year:	2025
Project ID:	Golden Valley Ranch Master Traffic Study

Traffic Characteristics

Annual average daily traffic, AADT	34000	vpd
Planning analysis hour factor, K	0.090	
Directional distribution factor, D	0.500	
Peak-hour factor, PHF	0.900	
Adjusted saturation flow rate	1800	pcphgpl
Percent turns from exclusive lanes	50	%

Roadway Characteristics

Number of through lanes one direction, N	2	
Free flow speed, FFS	35	mph
Urban class	2	
Section length	3.50	miles
Median	Yes	
Left-turn bays	Yes	

Signal Characteristics

Signalized intersections	2	
Arrival type, AT	3	
Signal type (k = 0.5 for planning)	Actuated	
Cycle length, C	90.0	sec
Effective green ratio, g/C	0.600	

Results

Annual average daily traffic, AADT	34000	vpd
Two-way hourly volume	3060	vph
Hourly directional volume	1530	vph
Through-volume 15-min. flow rate	850	v
Running time	360.0	sec
v/c ratio	0.39	
Through capacity	2160	vph
Progression factor, PF	1.000	
Uniform delay	9.4	sec
Filtering/metering factor, I	0.925	
Incremental delay	0.5	sec
Control delay	9.9	sec/v
Total travel speed, Sa	33.2	mph
Total urban street LOS	B	

East Middle Road

PLANNING ANALYSIS

Analyst:	Kondala Rao Mantri
Agency/Co.:	Stanley Consultants, Inc
Date Performed:	5/9/2006
Analysis Time Period:	P.M. Peak hour
Urban Street:	East Middle Road
Direction of Travel:	
Jurisdiction:	Mohave County, AZ`
Analysis Year:	2025
Project ID:	Golden Valley Ranch Master Traffic Study

Traffic Characteristics

Annual average daily traffic, AADT	8500	vpd
Planning analysis hour factor, K	0.090	
Directional distribution factor, D	0.500	
Peak-hour factor, PHF	0.900	
Adjusted saturation flow rate	1800	pcphgpl
Percent turns from exclusive lanes	50	%

Roadway Characteristics

Number of through lanes one direction, N	2	
Free flow speed, FFS	30	mph
Urban class	3	
Section length	1.40	miles
Median	No	
Left-turn bays	No	

Signal Characteristics

Signalized intersections	2	
Arrival type, AT	3	
Signal type (k = 0.5 for planning)	Actuated	
Cycle length, C	90.0	sec
Effective green ratio, g/C	0.600	

Results

Annual average daily traffic, AADT	8500	vpd
Two-way hourly volume	765	vph
Hourly directional volume	382	vph
Through-volume 15-min. flow rate	212	v
Running time	168.0	sec
v/c ratio	0.12	
Through capacity	1726	vph
Progression factor, PF	1.000	
Uniform delay	7.8	sec
Filtering/metering factor, I	0.997	
Incremental delay	0.1	sec
Control delay	7.9	sec/v
Total travel speed, Sa	27.4	mph
Total urban street LOS	B	

Hualapai Drive Extension

PLANNING ANALYSIS

Analyst:	Kondala Rao Mantri
Agency/Co.:	Stanley Consultants, Inc
Date Performed:	5/9/2006
Analysis Time Period:	P.M. Peak Hour
Urban Street:	Hualapai Drive Extension
Direction of Travel:	
Jurisdiction:	Mohave County, AZ
Analysis Year:	2025
Project ID:	Golden Valley Ranch Master Traffic Study

Traffic Characteristics

Annual average daily traffic, AADT	13000	vpd
Planning analysis hour factor, K	0.090	
Directional distribution factor, D	0.500	
Peak-hour factor, PHF	0.900	
Adjusted saturation flow rate	1800	pcphgpl
Percent turns from exclusive lanes	50	%

Roadway Characteristics

Number of through lanes one direction, N	2	
Free flow speed, FFS	30	mph
Urban class	3	
Section length	2.20	miles
Median	No	
Left-turn bays	No	

Signal Characteristics

Signalized intersections	2	
Arrival type, AT	3	
Signal type (k = 0.5 for planning)	Actuated	
Cycle length, C	90.0	sec
Effective green ratio, g/C	0.600	

Results

Annual average daily traffic, AADT	13000	vpd
Two-way hourly volume	1170	vph
Hourly directional volume	585	vph
Through-volume 15-min. flow rate	325	v
Running time	264.0	sec
v/c ratio	0.19	
Through capacity	1726	vph
Progression factor, PF	1.000	
Uniform delay	8.1	sec
Filtering/metering factor, I	0.990	
Incremental delay	0.2	sec
Control delay	8.4	sec/v
Total travel speed, Sa	28.2	mph
Total urban street LOS	B	

Indian Wells Road Extension

PLANNING ANALYSIS

Analyst:	Kondala Rao Mantri
Agency/Co.:	Stanley Consultants, Inc
Date Performed:	5/9/2006
Analysis Time Period:	P.M. Peak Hour
Urban Street:	Indian Wells Road Extension
Direction of Travel:	
Jurisdiction:	Mohave County, AZ
Analysis Year:	2025
Project ID:	Golden Valley Ranch Master Traffic Study

Traffic Characteristics

Annual average daily traffic, AADT	8000	vpd
Planning analysis hour factor, K	0.090	
Directional distribution factor, D	0.500	
Peak-hour factor, PHF	0.900	
Adjusted saturation flow rate	1800	pcphgpl
Percent turns from exclusive lanes	50	%

Roadway Characteristics

Number of through lanes one direction, N	2	
Free flow speed, FFS	30	mph
Urban class	3	
Section length	1.30	miles
Median	No	
Left-turn bays	No	

Signal Characteristics

Signalized intersections	2	
Arrival type, AT	3	
Signal type (k = 0.5 for planning)	Actuated	
Cycle length, C	90.0	sec
Effective green ratio, g/C	0.600	

Results

Annual average daily traffic, AADT	8000	vpd
Two-way hourly volume	720	vph
Hourly directional volume	360	vph
Through-volume 15-min. flow rate	200	v
Running time	156.0	sec
v/c ratio	0.12	
Through capacity	1726	vph
Progression factor, PF	1.000	
Uniform delay	7.7	sec
Filtering/metering factor, I	0.997	
Incremental delay	0.1	sec
Control delay	7.9	sec/v
Total travel speed, Sa	27.2	mph
Total urban street LOS	B	

Mobile Road Extension

PLANNING ANALYSIS

Analyst:	Kondala Rao Mantri
Agency/Co.:	Stanley Consultants. Inc
Date Performed:	5/9/2006
Analysis Time Period:	P.M. Peak Hour
Urban Street:	Mobile Road Extension
Direction of Travel:	
Jurisdiction:	Mohave County, AZ
Analysis Year:	2025
Project ID:	Golden Valley Ranch Master Traffic Study

Traffic Characteristics

Annual average daily traffic, AADT	20000	vpd
Planning analysis hour factor, K	0.090	
Directional distribution factor, D	0.500	
Peak-hour factor, PHF	0.900	
Adjusted saturation flow rate	1800	pcphgpl
Percent turns from exclusive lanes	50	%

Roadway Characteristics

Number of through lanes one direction, N	2	
Free flow speed, FFS	35	mph
Urban class	3	
Section length	0.70	miles
Median	No	
Left-turn bays	No	

Signal Characteristics

Signalized intersections	2	
Arrival type, AT	3	
Signal type (k = 0.5 for planning)	Actuated	
Cycle length, C	90.0	sec
Effective green ratio, g/C	0.600	

Results

Annual average daily traffic, AADT	20000	vpd
Two-way hourly volume	1800	vph
Hourly directional volume	900	vph
Through-volume 15-min. flow rate	500	v
Running time	75.3	sec
v/c ratio	0.29	
Through capacity	1726	vph
Progression factor, PF	1.000	
Uniform delay	8.7	sec
Filtering/metering factor, I	0.967	
Incremental delay	0.4	sec
Control delay	9.1	sec/v
Total travel speed, Sa	27.0	mph
Total urban street LOS	B	

Ramada Road Extension

PLANNING ANALYSIS

Analyst:	Kondala Rao Mantri
Agency/Co.:	Stanley Consultants. Inc
Date Performed:	5/9/2006
Analysis Time Period:	P.M. Peak Hour
Urban Street:	Ramada Road Extension
Direction of Travel:	
Jurisdiction:	Mohave County, AZ
Analysis Year:	2025
Project ID:	Golden Valley Ranch Master Traffic Study

Traffic Characteristics

Annual average daily traffic, AADT	15000	vpd
Planning analysis hour factor, K	0.090	
Directional distribution factor, D	0.500	
Peak-hour factor, PHF	0.900	
Adjusted saturation flow rate	1800	pcphgpl
Percent turns from exclusive lanes	50	%

Roadway Characteristics

Number of through lanes one direction, N	2	
Free flow speed, FFS	35	mph
Urban class	3	
Section length	2.40	miles
Median	No	
Left-turn bays	No	

Signal Characteristics

Signalized intersections	2	
Arrival type, AT	3	
Signal type (k = 0.5 for planning)	Actuated	
Cycle length, C	90.0	sec
Effective green ratio, g/C	0.600	

Results

Annual average daily traffic, AADT	15000	vpd
Two-way hourly volume	1350	vph
Hourly directional volume	675	vph
Through-volume 15-min. flow rate	375	v
Running time	246.9	sec
v/c ratio	0.22	
Through capacity	1726	vph
Progression factor, PF	1.000	
Uniform delay	8.3	sec
Filtering/metering factor, I	0.985	
Incremental delay	0.3	sec
Control delay	8.6	sec/v
Total travel speed, Sa	32.7	mph
Total urban street LOS	A	

Sacramento Road Extension

PLANNING ANALYSIS

Analyst:	Kondala Rao Mantri
Agency/Co.:	Stanley Consultants, Inc
Date Performed:	5/9/2006
Analysis Time Period:	P.M. Peak Hour
Urban Street:	Sacramento Road Extension
Direction of Travel:	
Jurisdiction:	Mohave County, AZ
Analysis Year:	2025
Project ID:	Golden Valley Ranch Master Traffic Study

Traffic Characteristics

Annual average daily traffic, AADT	33000	vpd
Planning analysis hour factor, K	0.090	
Directional distribution factor, D	0.500	
Peak-hour factor, PHF	0.900	
Adjusted saturation flow rate	1800	pcphgpl
Percent turns from exclusive lanes	50	%

Roadway Characteristics

Number of through lanes one direction, N	3	
Free flow speed, FFS	45	mph
Urban class	2	
Section length	1.10	miles
Median	Yes	
Left-turn bays	Yes	

Signal Characteristics

Signalized intersections	2	
Arrival type, AT	3	
Signal type (k = 0.5 for planning)	Actuated	
Cycle length, C	90.0	sec
Effective green ratio, g/C	0.600	

Results

Annual average daily traffic, AADT	33000	vpd
Two-way hourly volume	2970	vph
Hourly directional volume	1485	vph
Through-volume 15-min. flow rate	825	v
Running time	95.9	sec
v/c ratio	0.25	
Through capacity	3240	vph
Progression factor, PF	1.000	
Uniform delay	8.5	sec
Filtering/metering factor, I	0.977	
Incremental delay	0.2	sec
Control delay	8.7	sec/v
Total travel speed, Sa	35.0	mph
Total urban street LOS	B	

TC Connector

PLANNING ANALYSIS

Analyst:	Kondala Rao Mantri
Agency/Co.:	Stanley Consultants, Inc
Date Performed:	5/9/2006
Analysis Time Period:	P.M. Peak Hour
Urban Street:	TC Connecter
Direction of Travel:	
Jurisdiction:	Mohave County, AZ
Analysis Year:	2025
Project ID:	Golden Valley Ranch Master Traffic Study

Traffic Characteristics

Annual average daily traffic, AADT	24500	vpd
Planning analysis hour factor, K	0.090	
Directional distribution factor, D	0.500	
Peak-hour factor, PHF	0.900	
Adjusted saturation flow rate	1800	pcphgpl
Percent turns from exclusive lanes	50	%

Roadway Characteristics

Number of through lanes one direction, N	2	
Free flow speed, FFS	30	mph
Urban class	3	
Section length	1.30	miles
Median	No	
Left-turn bays	No	

Signal Characteristics

Signalized intersections	2	
Arrival type, AT	3	
Signal type (k = 0.5 for planning)	Actuated	
Cycle length, C	90.0	sec
Effective green ratio, g/C	0.600	

Results

Annual average daily traffic, AADT	24500	vpd
Two-way hourly volume	2205	vph
Hourly directional volume	1102	vph
Through-volume 15-min. flow rate	612	v
Running time	156.0	sec
v/c ratio	0.35	
Through capacity	1726	vph
Progression factor, PF	1.000	
Uniform delay	9.1	sec
Filtering/metering factor, I	0.943	
Incremental delay	0.5	sec
Control delay	9.7	sec/v
Total travel speed, Sa	26.7	mph
Total urban street LOS	B	

West Loop Road

PLANNING ANALYSIS

Analyst:	Kondala Rao Mantri
Agency/Co.:	Stanley Consult
Date Performed:	5/9/2006
Analysis Time Period:	P.M. Peak Hour
Urban Street:	West Loop Road
Direction of Travel:	
Jurisdiction:	Mohave County, AZ
Analysis Year:	2025
Project ID:	Golden Valley Ranch Master Traffic Study

Traffic Characteristics

Annual average daily traffic, AADT	20000	vpd
Planning analysis hour factor, K	0.090	
Directional distribution factor, D	0.500	
Peak-hour factor, PHF	0.900	
Adjusted saturation flow rate	1800	pcphgpl
Percent turns from exclusive lanes	50	%

Roadway Characteristics

Number of through lanes one direction, N	2	
Free flow speed, FFS	35	mph
Urban class	2	
Section length	3.20	miles
Median	Yes	
Left-turn bays	Yes	

Signal Characteristics

Signalized intersections	2	
Arrival type, AT	3	
Signal type (k = 0.5 for planning)	Actuated	
Cycle length, C	90.0	sec
Effective green ratio, g/C	0.600	

Results

Annual average daily traffic, AADT	20000	vpd
Two-way hourly volume	1800	vph
Hourly directional volume	900	vph
Through-volume 15-min. flow rate	500	v
Running time	329.1	sec
v/c ratio	0.23	
Through capacity	2160	vph
Progression factor, PF	1.000	
Uniform delay	8.4	sec
Filtering/metering factor, I	0.982	
Incremental delay	0.2	sec
Control delay	8.6	sec/v
Total travel speed, Sa	33.3	mph
Total urban street LOS	B	

2040 Results

HCS Arterial Planning Results – 2040 P.M. Peak Hour

Exterior Roadways

Aquarius Drive

PLANNING ANALYSIS

Analyst:	Kondala Rao Mantri
Agency/Co.:	Stanley Consultants, Inc
Date Performed:	5/9/2006
Analysis Time Period:	P.M. Peak Hour
Urban Street:	Aquarius Drive
Direction of Travel:	
Jurisdiction:	Mohave County, AZ
Analysis Year:	2040
Project ID:	Golden Valley Ranch Master Traffic Study

Traffic Characteristics

Annual average daily traffic, AADT	28000	vpd
Planning analysis hour factor, K	0.090	
Directional distribution factor, D	0.500	
Peak-hour factor, PHF	0.900	
Adjusted saturation flow rate	1800	pcphgpl
Percent turns from exclusive lanes	50	%

Roadway Characteristics

Number of through lanes one direction, N	2	
Free flow speed, FFS	40	mph
Urban class	2	
Section length	4.60	miles
Median	No	
Left-turn bays	Yes	

Signal Characteristics

Signalized intersections	2	
Arrival type, AT	3	
Signal type (k = 0.5 for planning)	Actuated	
Cycle length, C	90.0	sec
Effective green ratio, g/C	0.600	

Results

Annual average daily traffic, AADT	28000	vpd
Two-way hourly volume	2520	vph
Hourly directional volume	1260	vph
Through-volume 15-min. flow rate	700	v
Running time	414.0	sec
v/c ratio	0.34	
Through capacity	2050	vph
Progression factor, PF	1.000	
Uniform delay	9.1	sec
Filtering/metering factor, I	0.949	
Incremental delay	0.4	sec
Control delay	9.5	sec/v
Total travel speed, Sa	38.2	mph
Total urban street LOS	A	

Aztec Road

PLANNING ANALYSIS

Analyst:	Kondala Rao Mantri
Agency/Co.:	Stanley Consultants, Inc.
Date Performed:	5/9/2006
Analysis Time Period:	P.M. Peak Hour
Urban Street:	Aztec Road
Direction of Travel:	
Jurisdiction:	Mohave County, AZ
Analysis Year:	2040
Project ID:	Golden Valley Ranch Master Traffic Study

Traffic Characteristics

Annual average daily traffic, AADT	46000	vpd
Planning analysis hour factor, K	0.090	
Directional distribution factor, D	0.500	
Peak-hour factor, PHF	0.900	
Adjusted saturation flow rate	1800	pcphgpl
Percent turns from exclusive lanes	50	%

Roadway Characteristics

Number of through lanes one direction, N	3	
Free flow speed, FFS	45	mph
Urban class	2	
Section length	4.40	miles
Median	Yes	
Left-turn bays	Yes	

Signal Characteristics

Signalized intersections	2	
Arrival type, AT	3	
Signal type (k = 0.5 for planning)	Actuated	
Cycle length, C	90.0	sec
Effective green ratio, g/C	0.600	

Results

Annual average daily traffic, AADT	46000	vpd
Two-way hourly volume	4140	vph
Hourly directional volume	2070	vph
Through-volume 15-min. flow rate	1150	v
Running time	352.0	sec
v/c ratio	0.35	
Through capacity	3240	vph
Progression factor, PF	1.000	
Uniform delay	9.1	sec
Filtering/metering factor, I	0.943	
Incremental delay	0.3	sec
Control delay	9.4	sec/v
Total travel speed, Sa	42.7	mph
Total urban street LOS	A	

Bacobi Road

PLANNING ANALYSIS

Analyst:	Kondala Rao Mantri
Agency/Co.:	Stanley Consultants, Inc
Date Performed:	5/9/2006
Analysis Time Period:	P.M. Peak Hour
Urban Street:	Bacobi Road
Direction of Travel:	
Jurisdiction:	Mohave County, AZ
Analysis Year:	2040
Project ID:	Golden Valley Ranch Master Traffic Study

Traffic Characteristics

Annual average daily traffic, AADT	38000	vpd
Planning analysis hour factor, K	0.090	
Directional distribution factor, D	0.500	
Peak-hour factor, PHF	0.900	
Adjusted saturation flow rate	1800	pcphgpl
Percent turns from exclusive lanes	50	%

Roadway Characteristics

Number of through lanes one direction, N	2	
Free flow speed, FFS	45	mph
Urban class	2	
Section length	4.40	miles
Median	Yes	
Left-turn bays	Yes	

Signal Characteristics

Signalized intersections	2	
Arrival type, AT	3	
Signal type (k = 0.5 for planning)	Actuated	
Cycle length, C	90.0	sec
Effective green ratio, g/C	0.600	

Results

Annual average daily traffic, AADT	38000	vpd
Two-way hourly volume	3420	vph
Hourly directional volume	1710	vph
Through-volume 15-min. flow rate	950	v
Running time	352.0	sec
v/c ratio	0.44	
Through capacity	2160	vph
Progression factor, PF	1.000	
Uniform delay	9.8	sec
Filtering/metering factor, I	0.899	
Incremental delay	0.6	sec
Control delay	10.4	sec/v
Total travel speed, Sa	42.5	mph
Total urban street LOS	A	

Colorado Road

PLANNING ANALYSIS

Analyst:	Kondala Rao Mantri
Agency/Co.:	Stanley Consultants, Inc
Date Performed:	5/9/2006
Analysis Time Period:	P.M. Peak Hour
Urban Street:	Colorado Road
Direction of Travel:	
Jurisdiction:	Mohave County, AZ
Analysis Year:	2040
Project ID:	Golden Valley Ranch Master Traffic Study

Traffic Characteristics

Annual average daily traffic, AADT	22000	vpd
Planning analysis hour factor, K	0.090	
Directional distribution factor, D	0.500	
Peak-hour factor, PHF	0.900	
Adjusted saturation flow rate	1800	pcphgpl
Percent turns from exclusive lanes	50	%

Roadway Characteristics

Number of through lanes one direction, N	2	
Free flow speed, FFS	45	mph
Urban class	2	
Section length	4.60	miles
Median	Yes	
Left-turn bays	Yes	

Signal Characteristics

Signalized intersections	2	
Arrival type, AT	3	
Signal type (k = 0.5 for planning)	Actuated	
Cycle length, C	90.0	sec
Effective green ratio, g/C	0.600	

Results

Annual average daily traffic, AADT	22000	vpd
Two-way hourly volume	1980	vph
Hourly directional volume	990	vph
Through-volume 15-min. flow rate	550	v
Running time	368.0	sec
v/c ratio	0.25	
Through capacity	2160	vph
Progression factor, PF	1.000	
Uniform delay	8.5	sec
Filtering/metering factor, I	0.977	
Incremental delay	0.3	sec
Control delay	8.8	sec/v
Total travel speed, Sa	43.0	mph
Total urban street LOS	A	

Sacramento Road

PLANNING ANALYSIS

Analyst:	Kondala Rao Mantri
Agency/Co.:	Stanley Consultants, Inc
Date Performed:	5/9/2006
Analysis Time Period:	P.M. Peak Hour
Urban Street:	Sacramento Road
Direction of Travel:	
Jurisdiction:	Mohave County, AZ
Analysis Year:	2040
Project ID:	Golden Valley Ranch Master Traffic Study

Traffic Characteristics

Annual average daily traffic, AADT	21000	vpd
Planning analysis hour factor, K	0.090	
Directional distribution factor, D	0.500	
Peak-hour factor, PHF	0.900	
Adjusted saturation flow rate	1800	pcphgpl
Percent turns from exclusive lanes	50	%

Roadway Characteristics

Number of through lanes one direction, N	2	
Free flow speed, FFS	40	mph
Urban class	2	
Section length	5.00	miles
Median	Yes	
Left-turn bays	Yes	

Signal Characteristics

Signalized intersections	2	
Arrival type, AT	3	
Signal type (k = 0.5 for planning)	Actuated	
Cycle length, C	90.0	sec
Effective green ratio, g/C	0.600	

Results

Annual average daily traffic, AADT	21000	vpd
Two-way hourly volume	1890	vph
Hourly directional volume	945	vph
Through-volume 15-min. flow rate	525	v
Running time	450.0	sec
v/c ratio	0.24	
Through capacity	2160	vph
Progression factor, PF	1.000	
Uniform delay	8.4	sec
Filtering/metering factor, I	0.979	
Incremental delay	0.3	sec
Control delay	8.7	sec/v
Total travel speed, Sa	38.5	mph
Total urban street LOS	A	

Shinarump Drive

PLANNING ANALYSIS

Analyst:	Kondala Rao Mantri
Agency/Co.:	Stanley Consultants, Inc
Date Performed:	5/9/2006
Analysis Time Period:	P.M. Peak Hour
Urban Street:	Shinarump Drive
Direction of Travel:	
Jurisdiction:	Mohave County, AZ
Analysis Year:	2040
Project ID:	Golden Valley Ranch Master Traffic Study

Traffic Characteristics

Annual average daily traffic, AADT	28000	vpd
Planning analysis hour factor, K	0.090	
Directional distribution factor, D	0.500	
Peak-hour factor, PHF	0.900	
Adjusted saturation flow rate	1800	pcphgpl
Percent turns from exclusive lanes	50	%

Roadway Characteristics

Number of through lanes one direction, N	3	
Free flow speed, FFS	45	mph
Urban class	2	
Section length	5.00	miles
Median	Yes	
Left-turn bays	Yes	

Signal Characteristics

Signalized intersections	2	
Arrival type, AT	3	
Signal type (k = 0.5 for planning)	Actuated	
Cycle length, C	90.0	sec
Effective green ratio, g/C	0.600	

Results

Annual average daily traffic, AADT	28000	vpd
Two-way hourly volume	2520	vph
Hourly directional volume	1260	vph
Through-volume 15-min. flow rate	700	v
Running time	400.0	sec
v/c ratio	0.22	
Through capacity	3240	vph
Progression factor, PF	1.000	
Uniform delay	8.3	sec
Filtering/metering factor, I	0.985	
Incremental delay	0.2	sec
Control delay	8.4	sec/v
Total travel speed, Sa	43.2	mph
Total urban street LOS	A	

Tombstone Trail

PLANNING ANALYSIS

Analyst:	Kondala Rao Mantri
Agency/Co.:	Stanley Consultants, Inc
Date Performed:	5/9/2006
Analysis Time Period:	P.M. Peak Hour
Urban Street:	Tombstone Trail
Direction of Travel:	
Jurisdiction:	Mohave County, AZ
Analysis Year:	2040
Project ID:	Golden Valley Ranch Master Traffic Study

Traffic Characteristics

Annual average daily traffic, AADT	11000	vpd
Planning analysis hour factor, K	0.090	
Directional distribution factor, D	0.500	
Peak-hour factor, PHF	0.900	
Adjusted saturation flow rate	1800	pcphgpl
Percent turns from exclusive lanes	50	%

Roadway Characteristics

Number of through lanes one direction, N	2	
Free flow speed, FFS	40	mph
Urban class	2	
Section length	8.00	miles
Median	Yes	
Left-turn bays	Yes	

Signal Characteristics

Signalized intersections	2	
Arrival type, AT	3	
Signal type (k = 0.5 for planning)	Actuated	
Cycle length, C	90.0	sec
Effective green ratio, g/C	0.600	

Results

Annual average daily traffic, AADT	11000	vpd
Two-way hourly volume	990	vph
Hourly directional volume	495	vph
Through-volume 15-min. flow rate	275	v
Running time	720.0	sec
v/c ratio	0.13	
Through capacity	2160	vph
Progression factor, PF	1.000	
Uniform delay	7.8	sec
Filtering/metering factor, I	0.996	
Incremental delay	0.1	sec
Control delay	7.9	sec/v
Total travel speed, Sa	39.1	mph
Total urban street LOS	A	

Interior Roadways

Aztec Road Extension

PLANNING ANALYSIS

Analyst:	Kondala Rao Mantri
Agency/Co.:	Stanley Consultants, Inc
Date Performed:	5/9/2006
Analysis Time Period:	P.M. Peak Hour
Urban Street:	Aztec Road Extension
Direction of Travel:	
Jurisdiction:	Mohave County, AZ
Analysis Year:	2040
Project ID:	Golden Valley Ranch Master Traffic Study

Traffic Characteristics

Annual average daily traffic, AADT	44000	vpd
Planning analysis hour factor, K	0.090	
Directional distribution factor, D	0.500	
Peak-hour factor, PHF	0.900	
Adjusted saturation flow rate	1800	pcphgpl
Percent turns from exclusive lanes	50	%

Roadway Characteristics

Number of through lanes one direction, N	3	
Free flow speed, FFS	45	mph
Urban class	2	
Section length	2.30	miles
Median	Yes	
Left-turn bays	Yes	

Signal Characteristics

Signalized intersections	2	
Arrival type, AT	3	
Signal type (k = 0.5 for planning)	Actuated	
Cycle length, C	90.0	sec
Effective green ratio, g/C	0.600	

Results

Annual average daily traffic, AADT	44000	vpd
Two-way hourly volume	3960	vph
Hourly directional volume	1980	vph
Through-volume 15-min. flow rate	1100	v
Running time	184.0	sec
v/c ratio	0.34	
Through capacity	3240	vph
Progression factor, PF	1.000	
Uniform delay	9.0	sec
Filtering/metering factor, I	0.950	
Incremental delay	0.3	sec
Control delay	9.3	sec/v
Total travel speed, Sa	40.9	mph
Total urban street LOS	A	

Bacobi Road Extension

PLANNING ANALYSIS

Analyst:	Kondala Rao Mantri
Agency/Co.:	Stanley Consultants, Inc
Date Performed:	5/9/2006
Analysis Time Period:	P.M. Peak Hour
Urban Street:	Bacobi Road Extension
Direction of Travel:	
Jurisdiction:	Mohave County, AZ
Analysis Year:	2040
Project ID:	Golden Valley Ranch Master Traffic Study

Traffic Characteristics

Annual average daily traffic, AADT	43000	vpd
Planning analysis hour factor, K	0.090	
Directional distribution factor, D	0.500	
Peak-hour factor, PHF	0.900	
Adjusted saturation flow rate	1800	pcphgpl
Percent turns from exclusive lanes	50	%

Roadway Characteristics

Number of through lanes one direction, N	2	
Free flow speed, FFS	35	mph
Urban class	3	
Section length	0.60	miles
Median	No	
Left-turn bays	Yes	

Signal Characteristics

Signalized intersections	2	
Arrival type, AT	3	
Signal type (k = 0.5 for planning)	Actuated	
Cycle length, C	90.0	sec
Effective green ratio, g/C	0.600	

Results

Annual average daily traffic, AADT	43000	vpd
Two-way hourly volume	3870	vph
Hourly directional volume	1935	vph
Through-volume 15-min. flow rate	1075	v
Running time	67.2	sec
v/c ratio	0.52	
Through capacity	2050	vph
Progression factor, PF	1.000	
Uniform delay	10.5	sec
Filtering/metering factor, I	0.839	
Incremental delay	0.8	sec
Control delay	11.3	sec/v
Total travel speed, Sa	24.0	mph
Total urban street LOS	B	

Centennial Road Extension

PLANNING ANALYSIS

Analyst:	Kondala Rao Mantri
Agency/Co.:	Stanley Consultants, Inc
Date Performed:	5/9/2006
Analysis Time Period:	P.M. Peak Hour
Urban Street:	Centennial Road Extension
Direction of Travel:	
Jurisdiction:	Mohave County, AZ
Analysis Year:	2040
Project ID:	Golden Valley Ranch Master Traffic Study

Traffic Characteristics

Annual average daily traffic, AADT	33000	vpd
Planning analysis hour factor, K	0.090	
Directional distribution factor, D	0.500	
Peak-hour factor, PHF	0.900	
Adjusted saturation flow rate	1800	pcphgpl
Percent turns from exclusive lanes	50	%

Roadway Characteristics

Number of through lanes one direction, N	2	
Free flow speed, FFS	35	mph
Urban class	3	
Section length	1.00	miles
Median	Yes	
Left-turn bays	Yes	

Signal Characteristics

Signalized intersections	2	
Arrival type, AT	3	
Signal type (k = 0.5 for planning)	Actuated	
Cycle length, C	90.0	sec
Effective green ratio, g/C	0.600	

Results

Annual average daily traffic, AADT	33000	vpd
Two-way hourly volume	2970	vph
Hourly directional volume	1485	vph
Through-volume 15-min. flow rate	825	v
Running time	103.0	sec
v/c ratio	0.38	
Through capacity	2160	vph
Progression factor, PF	1.000	
Uniform delay	9.3	sec
Filtering/metering factor, I	0.931	
Incremental delay	0.5	sec
Control delay	9.8	sec/v
Total travel speed, Sa	29.4	mph
Total urban street LOS	B	

Cerbat Road Extension

PLANNING ANALYSIS

Analyst:	Kondala Rao Mantri
Agency/Co.:	Stanley Consultants, Inc
Date Performed:	5/9/2006
Analysis Time Period:	P.M. Peak Hour
Urban Street:	Cerbat Road Extension
Direction of Travel:	
Jurisdiction:	Mohave County, AZ
Analysis Year:	2040
Project ID:	Golden Valley Ranch Master Traffic Study

Traffic Characteristics

Annual average daily traffic, AADT	10000	vpd
Planning analysis hour factor, K	0.090	
Directional distribution factor, D	0.500	
Peak-hour factor, PHF	0.900	
Adjusted saturation flow rate	1800	pcphgpl
Percent turns from exclusive lanes	50	%

Roadway Characteristics

Number of through lanes one direction, N	2	
Free flow speed, FFS	35	mph
Urban class	3	
Section length	1.00	miles
Median	No	
Left-turn bays	Yes	

Signal Characteristics

Signalized intersections	2	
Arrival type, AT	3	
Signal type (k = 0.5 for planning)	Actuated	
Cycle length, C	90.0	sec
Effective green ratio, g/C	0.600	

Results

Annual average daily traffic, AADT	10000	vpd
Two-way hourly volume	900	vph
Hourly directional volume	450	vph
Through-volume 15-min. flow rate	250	v
Running time	103.0	sec
v/c ratio	0.12	
Through capacity	2050	vph
Progression factor, PF	1.000	
Uniform delay	7.8	sec
Filtering/metering factor, I	0.997	
Incremental delay	0.1	sec
Control delay	7.9	sec/v
Total travel speed, Sa	30.3	mph
Total urban street LOS	A	

East Loop Road

PLANNING ANALYSIS

Analyst:	Kondala Rao Mantri
Agency/Co.:	Stanley Consultants, Inc
Date Performed:	5/9/2006
Analysis Time Period:	P.M. Peak Hour
Urban Street:	East Loop Road
Direction of Travel:	
Jurisdiction:	Mohave County, AZ
Analysis Year:	2040
Project ID:	Golden Valley Ranch Master Traffic Study

Traffic Characteristics

Annual average daily traffic, AADT	37000	vpd
Planning analysis hour factor, K	0.090	
Directional distribution factor, D	0.500	
Peak-hour factor, PHF	0.900	
Adjusted saturation flow rate	1800	pcphgpl
Percent turns from exclusive lanes	50	%

Roadway Characteristics

Number of through lanes one direction, N	2	
Free flow speed, FFS	35	mph
Urban class	2	
Section length	3.50	miles
Median	Yes	
Left-turn bays	Yes	

Signal Characteristics

Signalized intersections	2	
Arrival type, AT	3	
Signal type (k = 0.5 for planning)	Actuated	
Cycle length, C	90.0	sec
Effective green ratio, g/C	0.600	

Results

Annual average daily traffic, AADT	37000	vpd
Two-way hourly volume	3330	vph
Hourly directional volume	1665	vph
Through-volume 15-min. flow rate	925	v
Running time	360.0	sec
v/c ratio	0.43	
Through capacity	2160	vph
Progression factor, PF	1.000	
Uniform delay	9.7	sec
Filtering/metering factor, I	0.906	
Incremental delay	0.6	sec
Control delay	10.3	sec/v
Total travel speed, Sa	33.1	mph
Total urban street LOS	B	

East Middle Road

PLANNING ANALYSIS

Analyst:	Kondala Rao Mantri
Agency/Co.:	Stanley Consultants, Inc
Date Performed:	5/9/2006
Analysis Time Period:	P.M. Peak hour
Urban Street:	East Middle Road
Direction of Travel:	
Jurisdiction:	Mohave County, AZ`
Analysis Year:	2040
Project ID:	Golden Valley Ranch Master Traffic Study

Traffic Characteristics

Annual average daily traffic, AADT	8500	vpd
Planning analysis hour factor, K	0.090	
Directional distribution factor, D	0.500	
Peak-hour factor, PHF	0.900	
Adjusted saturation flow rate	1800	pcphgpl
Percent turns from exclusive lanes	50	%

Roadway Characteristics

Number of through lanes one direction, N	2	
Free flow speed, FFS	30	mph
Urban class	3	
Section length	1.40	miles
Median	No	
Left-turn bays	No	

Signal Characteristics

Signalized intersections	2	
Arrival type, AT	3	
Signal type (k = 0.5 for planning)	Actuated	
Cycle length, C	90.0	sec
Effective green ratio, g/C	0.600	

Results

Annual average daily traffic, AADT	8500	vpd
Two-way hourly volume	765	vph
Hourly directional volume	382	vph
Through-volume 15-min. flow rate	212	v
Running time	168.0	sec
v/c ratio	0.12	
Through capacity	1726	vph
Progression factor, PF	1.000	
Uniform delay	7.8	sec
Filtering/metering factor, I	0.997	
Incremental delay	0.1	sec
Control delay	7.9	sec/v
Total travel speed, Sa	27.4	mph
Total urban street LOS	B	

Hualapai Drive Extension

PLANNING ANALYSIS

Analyst:	Kondala Rao Mantri
Agency/Co.:	Stanley Consultants, Inc
Date Performed:	5/9/2006
Analysis Time Period:	P.M. Peak Hour
Urban Street:	Hualapai Drive Extension
Direction of Travel:	
Jurisdiction:	Mohave County, AZ
Analysis Year:	2040
Project ID:	Golden Valley Ranch Master Traffic Study

Traffic Characteristics

Annual average daily traffic, AADT	13000	vpd
Planning analysis hour factor, K	0.090	
Directional distribution factor, D	0.500	
Peak-hour factor, PHF	0.900	
Adjusted saturation flow rate	1800	pcphgpl
Percent turns from exclusive lanes	50	%

Roadway Characteristics

Number of through lanes one direction, N	2	
Free flow speed, FFS	30	mph
Urban class	3	
Section length	2.20	miles
Median	No	
Left-turn bays	No	

Signal Characteristics

Signalized intersections	2	
Arrival type, AT	3	
Signal type (k = 0.5 for planning)	Actuated	
Cycle length, C	90.0	sec
Effective green ratio, g/C	0.600	

Results

Annual average daily traffic, AADT	13000	vpd
Two-way hourly volume	1170	vph
Hourly directional volume	585	vph
Through-volume 15-min. flow rate	325	v
Running time	264.0	sec
v/c ratio	0.19	
Through capacity	1726	vph
Progression factor, PF	1.000	
Uniform delay	8.1	sec
Filtering/metering factor, I	0.990	
Incremental delay	0.2	sec
Control delay	8.4	sec/v
Total travel speed, Sa	28.2	mph
Total urban street LOS	B	

Indian Wells Road Extension

PLANNING ANALYSIS

Analyst:	Kondala Rao Mantri
Agency/Co.:	Stanley Consultants, Inc
Date Performed:	5/9/2006
Analysis Time Period:	P.M. Peak Hour
Urban Street:	Indian Wells Road Extension
Direction of Travel:	
Jurisdiction:	Mohave County, AZ
Analysis Year:	2040
Project ID:	Golden Valley Ranch Master Traffic Study

Traffic Characteristics

Annual average daily traffic, AADT	8000	vpd
Planning analysis hour factor, K	0.090	
Directional distribution factor, D	0.500	
Peak-hour factor, PHF	0.900	
Adjusted saturation flow rate	1800	pcphgpl
Percent turns from exclusive lanes	50	%

Roadway Characteristics

Number of through lanes one direction, N	2	
Free flow speed, FFS	30	mph
Urban class	3	
Section length	1.30	miles
Median	No	
Left-turn bays	No	

Signal Characteristics

Signalized intersections	2	
Arrival type, AT	3	
Signal type (k = 0.5 for planning)	Actuated	
Cycle length, C	90.0	sec
Effective green ratio, g/C	0.600	

Results

Annual average daily traffic, AADT	8000	vpd
Two-way hourly volume	720	vph
Hourly directional volume	360	vph
Through-volume 15-min. flow rate	200	v
Running time	156.0	sec
v/c ratio	0.12	
Through capacity	1726	vph
Progression factor, PF	1.000	
Uniform delay	7.7	sec
Filtering/metering factor, I	0.997	
Incremental delay	0.1	sec
Control delay	7.9	sec/v
Total travel speed, Sa	27.2	mph
Total urban street LOS	B	

Mobile Road Extension

PLANNING ANALYSIS

Analyst:	Kondala Rao Mantri
Agency/Co.:	Stanley Consultants. Inc
Date Performed:	5/9/2006
Analysis Time Period:	P.M. Peak Hour
Urban Street:	Mobile Road Extension
Direction of Travel:	
Jurisdiction:	Mohave County, AZ
Analysis Year:	2040
Project ID:	Golden Valley Ranch Master Traffic Study

Traffic Characteristics

Annual average daily traffic, AADT	23000	vpd
Planning analysis hour factor, K	0.090	
Directional distribution factor, D	0.500	
Peak-hour factor, PHF	0.900	
Adjusted saturation flow rate	1800	pcphgpl
Percent turns from exclusive lanes	50	%

Roadway Characteristics

Number of through lanes one direction, N	2	
Free flow speed, FFS	35	mph
Urban class	3	
Section length	0.70	miles
Median	No	
Left-turn bays	No	

Signal Characteristics

Signalized intersections	2	
Arrival type, AT	3	
Signal type (k = 0.5 for planning)	Actuated	
Cycle length, C	90.0	sec
Effective green ratio, g/C	0.600	

Results

Annual average daily traffic, AADT	23000	vpd
Two-way hourly volume	2070	vph
Hourly directional volume	1035	vph
Through-volume 15-min. flow rate	575	v
Running time	75.3	sec
v/c ratio	0.33	
Through capacity	1726	vph
Progression factor, PF	1.000	
Uniform delay	9.0	sec
Filtering/metering factor, I	0.952	
Incremental delay	0.5	sec
Control delay	9.5	sec/v
Total travel speed, Sa	26.7	mph
Total urban street LOS	B	

Ramada Road Extension

PLANNING ANALYSIS

Analyst:	Kondala Rao Mantri
Agency/Co.:	Stanley Consultants. Inc
Date Performed:	5/9/2006
Analysis Time Period:	P.M. Peak Hour
Urban Street:	Ramada Road Extension
Direction of Travel:	
Jurisdiction:	Mohave County, AZ
Analysis Year:	2040
Project ID:	Golden Valley Ranch Master Traffic Study

Traffic Characteristics

Annual average daily traffic, AADT	18000	vpd
Planning analysis hour factor, K	0.090	
Directional distribution factor, D	0.500	
Peak-hour factor, PHF	0.900	
Adjusted saturation flow rate	1800	pcphgpl
Percent turns from exclusive lanes	50	%

Roadway Characteristics

Number of through lanes one direction, N	2	
Free flow speed, FFS	35	mph
Urban class	3	
Section length	2.40	miles
Median	No	
Left-turn bays	No	

Signal Characteristics

Signalized intersections	2	
Arrival type, AT	3	
Signal type (k = 0.5 for planning)	Actuated	
Cycle length, C	90.0	sec
Effective green ratio, g/C	0.600	

Results

Annual average daily traffic, AADT	18000	vpd
Two-way hourly volume	1620	vph
Hourly directional volume	810	vph
Through-volume 15-min. flow rate	450	v
Running time	246.9	sec
v/c ratio	0.26	
Through capacity	1726	vph
Progression factor, PF	1.000	
Uniform delay	8.5	sec
Filtering/metering factor, I	0.975	
Incremental delay	0.4	sec
Control delay	8.9	sec/v
Total travel speed, Sa	32.6	mph
Total urban street LOS	A	

Sacramento Road Extension

PLANNING ANALYSIS

Analyst:	Kondala Rao Mantri
Agency/Co.:	Stanley Consultants, Inc
Date Performed:	5/9/2006
Analysis Time Period:	P.M. Peak Hour
Urban Street:	Sacramento Road Extension
Direction of Travel:	
Jurisdiction:	Mohave County, AZ
Analysis Year:	2040
Project ID:	Golden Valley Ranch Master Traffic Study

Traffic Characteristics

Annual average daily traffic, AADT	36000	vpd
Planning analysis hour factor, K	0.090	
Directional distribution factor, D	0.500	
Peak-hour factor, PHF	0.900	
Adjusted saturation flow rate	1800	pcphgpl
Percent turns from exclusive lanes	50	%

Roadway Characteristics

Number of through lanes one direction, N	3	
Free flow speed, FFS	45	mph
Urban class	2	
Section length	1.10	miles
Median	Yes	
Left-turn bays	Yes	

Signal Characteristics

Signalized intersections	2	
Arrival type, AT	3	
Signal type (k = 0.5 for planning)	Actuated	
Cycle length, C	90.0	sec
Effective green ratio, g/C	0.600	

Results

Annual average daily traffic, AADT	36000	vpd
Two-way hourly volume	3240	vph
Hourly directional volume	1620	vph
Through-volume 15-min. flow rate	900	v
Running time	95.9	sec
v/c ratio	0.28	
Through capacity	3240	vph
Progression factor, PF	1.000	
Uniform delay	8.6	sec
Filtering/metering factor, I	0.971	
Incremental delay	0.2	sec
Control delay	8.8	sec/v
Total travel speed, Sa	34.9	mph
Total urban street LOS	B	

TC Connector

PLANNING ANALYSIS

Analyst:	Kondala Rao Mantri
Agency/Co.:	Stanley Consultants, Inc
Date Performed:	5/9/2006
Analysis Time Period:	P.M. Peak Hour
Urban Street:	TC Connecter
Direction of Travel:	
Jurisdiction:	Mohave County, AZ
Analysis Year:	2040
Project ID:	Golden Valley Ranch Master Traffic Study

Traffic Characteristics

Annual average daily traffic, AADT	24500	vpd
Planning analysis hour factor, K	0.090	
Directional distribution factor, D	0.500	
Peak-hour factor, PHF	0.900	
Adjusted saturation flow rate	1800	pcphgpl
Percent turns from exclusive lanes	50	%

Roadway Characteristics

Number of through lanes one direction, N	2	
Free flow speed, FFS	30	mph
Urban class	3	
Section length	1.30	miles
Median	No	
Left-turn bays	No	

Signal Characteristics

Signalized intersections	2	
Arrival type, AT	3	
Signal type (k = 0.5 for planning)	Actuated	
Cycle length, C	90.0	sec
Effective green ratio, g/C	0.600	

Results

Annual average daily traffic, AADT	24500	vpd
Two-way hourly volume	2205	vph
Hourly directional volume	1102	vph
Through-volume 15-min. flow rate	612	v
Running time	156.0	sec
v/c ratio	0.35	
Through capacity	1726	vph
Progression factor, PF	1.000	
Uniform delay	9.1	sec
Filtering/metering factor, I	0.943	
Incremental delay	0.5	sec
Control delay	9.7	sec/v
Total travel speed, Sa	26.7	mph
Total urban street LOS	B	

West Loop Road

PLANNING ANALYSIS

Analyst:	Kondala Rao Mantri
Agency/Co.:	Stanley Consult
Date Performed:	5/9/2006
Analysis Time Period:	P.M. Peak Hour
Urban Street:	West Loop Road
Direction of Travel:	
Jurisdiction:	Mohave County, AZ
Analysis Year:	2040
Project ID:	Golden Valley Ranch Master Traffic Study

Traffic Characteristics

Annual average daily traffic, AADT	23000	vpd
Planning analysis hour factor, K	0.090	
Directional distribution factor, D	0.500	
Peak-hour factor, PHF	0.900	
Adjusted saturation flow rate	1800	pcphgpl
Percent turns from exclusive lanes	50	%

Roadway Characteristics

Number of through lanes one direction, N	2	
Free flow speed, FFS	35	mph
Urban class	2	
Section length	3.20	miles
Median	Yes	
Left-turn bays	Yes	

Signal Characteristics

Signalized intersections	2	
Arrival type, AT	3	
Signal type (k = 0.5 for planning)	Actuated	
Cycle length, C	90.0	sec
Effective green ratio, g/C	0.600	

Results

Annual average daily traffic, AADT	23000	vpd
Two-way hourly volume	2070	vph
Hourly directional volume	1035	vph
Through-volume 15-min. flow rate	575	v
Running time	329.1	sec
v/c ratio	0.27	
Through capacity	2160	vph
Progression factor, PF	1.000	
Uniform delay	8.6	sec
Filtering/metering factor, I	0.974	
Incremental delay	0.3	sec
Control delay	8.9	sec/v
Total travel speed, Sa	33.2	mph
Total urban street LOS	B	

Results Summary

GOLDEN VALLEY RANCH
MASTER TRAFFIC STUDY
RESULTS FROM THE HCS ANALYSIS

Roadway	Number of Lanes	Design Speed (mph)	2015 LOS	2025 LOS	2040 LOS
Aquarius Drive	4	40	A	A	A
Aztec Road	6	45	A	A	A
Bacobi Road	4	45	A	A	A
Colorado Road	4	45	A	A	A
Sacramento Road	4	40	A	A	A
Shinarump Road	6	45	A	A	A
Tombstone Trail	4	40	A	A	A

Roadway	Number of Lanes	Design Speed (mph)	2015 LOS	2025 LOS	2040 LOS
Aztec Road Extension	6	45	A	A	A
Bacobi Road Extension	4	35	B	B	B
Centennial Road Extension	4	35	A	B	B
Cerbat Road Extension	4	35	A	A	A
East Loop Road	4	35	B	B	B
East Middle Road	4	30	B	B	B
Hualapai Drive Extension	4	30	B	B	B
Indian Wells Road Extension	4	30	B	B	B
Mobile Road Extension	4	35	B	B	B
Ramada Road Extension	4	35	A	A	A
Sacramento Road Extension	6	45	A	B	B
Town Center Connector	4	30	B	B	B
West Loop Road	4	35	B	B	B

Appendix C

Standards

Mohave County Public Works
Typical Roadway Sections

MINIMUM STANDARDS for NON-CURB ROADWAY DESIGN

ITEM	A	B	C	D	E	DESIGN SPEED
CLASSIFICATION						
COUNTY HIGHWAY	100'	12'	8'	4'	3:1	40-60
ARTERIALS	84'	12'	8'	4'	3:1	40-50
COLLECTORS/DISTRIBUTORS	70'	12'	8'	4'	3:1	30-40
LOCAL	50'	12'	8'	—	3:1	30
CUL-de-SAC'S	50'	12'	8'	—	3:1	25
HILLSIDE/FRONTAGE	50'	12'	2'	—	3:1	30

Roadway classification to be approved by the County Engineer

Design speed shall be the maximum speed shown unless documentation is submitted to and is approved by the County Engineer for a lesser design speed.

Roadway Design shall conform to the standards outlined in the current edition of the AASHTO Policy on Geometric Design of Highways and Streets.

All right-of-way widths shown are minimums. Final design may require additional right-of-way. For Subdivisions recorded prior to Sept. 7, 1965 the minimum width shall be 40 feet, when a request for maintenance is being considered.

The 10-year design storm must be contained within the improved ditch section removed from the shoulder. The 100-year design storm can not overtop the centerline of the road.

THIS STANDARD DETAIL REPLACES STANDARD DETAIL 60 THRU 63, DATED MAY, 1976

MINIMUM STANDARDS for NON-CURB ROADWAY DESIGN	UNIFORM STANDARD DETAILS MOHAVE COUNTY AREA Prepared By: MOHAVE COUNTY ENGINEERING
APPROVED: DATE:	STANDARD DETAIL No. 60

NIMUM STANDARDS for CURB ROADWAY DESIGN

CLASSIFICATION ITEM	A	B	DESIGN SPEED
COUNTY HIGHWAY	100'	32'	40-60
ARTERIALS	84'	28'	40-50
COLLECTORS/DISTRIBUTORS	70'	22'	30-40
LOCAL	50'	16'	30
CUL-de-SAC'S	50'	16'	25
HILLSIDE/FRONTAGE	50'	14'	30

Roadway classification to be approved by the County Engineer

Design speed shall be the maximum speed shown unless documentation is submitted to and is approved by the County Engineer for a lesser design speed.

Roadway Design shall conform to the standards outlined in the current edition of the AASHTO Policy on Geometric Design of Highways and Streets.

All right-of-way widths shown are minimums. Final design may require additional right-of-way. For Subdivision's recorded prior to Sept. 7, 1965 the minimum width shall be 40 feet, when a request for maintenance is being considered.

Roadway widths are shown as minimums measured face of curb to face of curb.

When road Right-of-Ways is to be used as a channel to convey storm runoff, the 10 -year storm must be contained within the paved roadway section. The 100 year storm must be considered within the right-of-way with a maximum flow depth not to exceed 8".

THIS STANDARD DETAIL REPLACES STANDARD DETAIL 60 THRU 63, DATED MAY, 1976.

MINIMUM STANDARDS for CURB ROADWAY DESIGN	UNIFORM STANDARD DETAILS MOHAVE COUNTY AREA Prepared By: MOHAVE COUNTY ENGINEERING
APPROVED: DATE:	STANDARD DETAIL NO. 61

NIMUM STANDARDS for

INVERTED CROWN CURB ROADWAY SECTION

CLASSIFICATION	A	B	DESIGN SPEED
COUNTY HIGHWAY	100'	32'	40-60
ARTERIALS	84'	26'	40-50
COLLECTORS/DISTRIBUTORS	70'	22'	30-40
LOCAL	50'	16'	30
CUL-de-SAC'S	50'	16'	25
HILLSIDE/FRONTAGE	50'	14'	30

Roadway classification to be approved by the County Engineer

Design speed shall be the maximum speed shown unless documentation is submitted to and is approved by the County Engineer for a lesser design speed.

Roadway Design shall conform to the standards outlined in the current edition of the AASHTO Policy on Geometric Design of Highways and Streets.

All right-of-way widths shown are minimums. Final design may require additional right-of-way. For Subdivision's recorded prior to Sept. 7, 1965 the minimum width shall be 40 feet, when a request for maintenance is being considered.

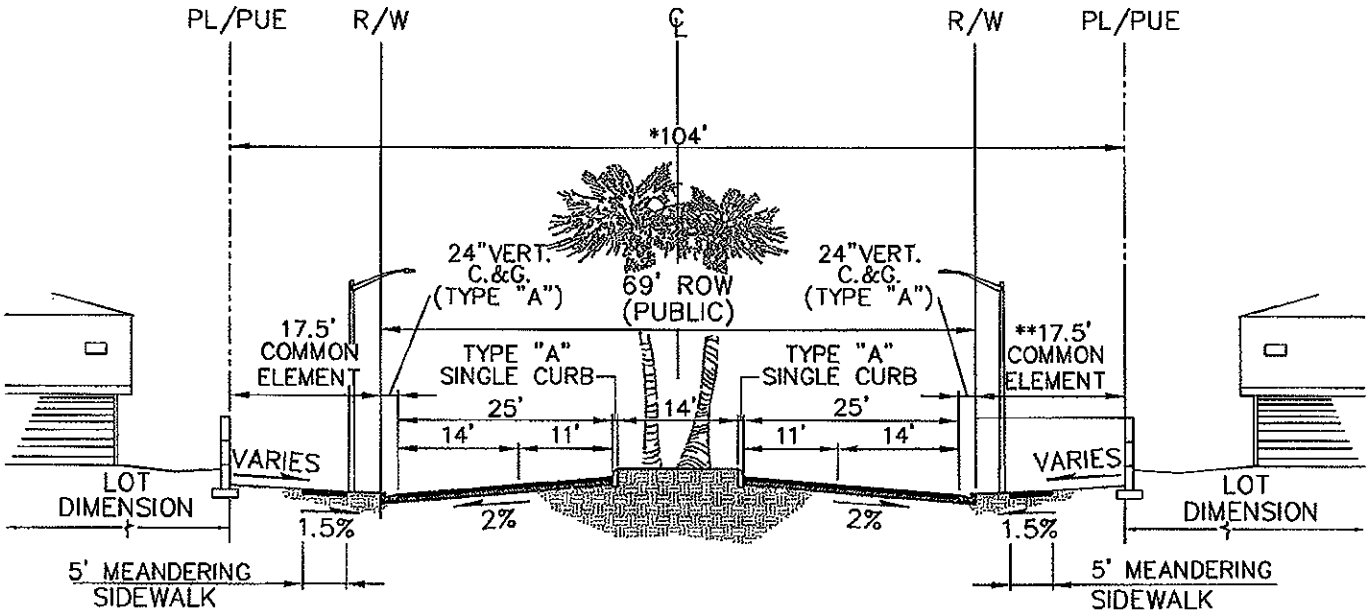
Roadway widths are shown as minimums Measured face of curb to face of curb.

When road Right-of-Ways is to be used as a channel to convey storm runoff, the 10 -year storm must be contained within the paved roadway section. The 100 year storm must be contained within the right-of-way with a maximum flow depth not to exceed 8".

THIS STANDARD DETAIL REPLACES STANDARD DETAIL 60 THRU 63, DATED MAY, 1976.

MINIMUM STANDARDS for INVERTED CROWN CURB ROADWAY DESIGN	UNIFORM STANDARD DETAILS MOHAVE COUNTY AREA Prepared By: MOHAVE COUNTY ENGINEERING
APPROVED: DATE:	STANDARD DETAIL NO. 62

Golden Valley Ranch
Project Specific
Typical Roadway Sections



* – 91' IF ADJACENT TO GOLF COURSE
** – 4.5' IF ADJACENT TO GOLF COURSE

TYPICAL LOOP RD. #1 STREET SECTION

(PUBLIC) NOT TO SCALE

NOTE: ALL LANDSCAPING/WALKWAYS FROM PL TO PL TO BE MAINTAINED BY MASTER HOMEOWNER ASSOCIATION

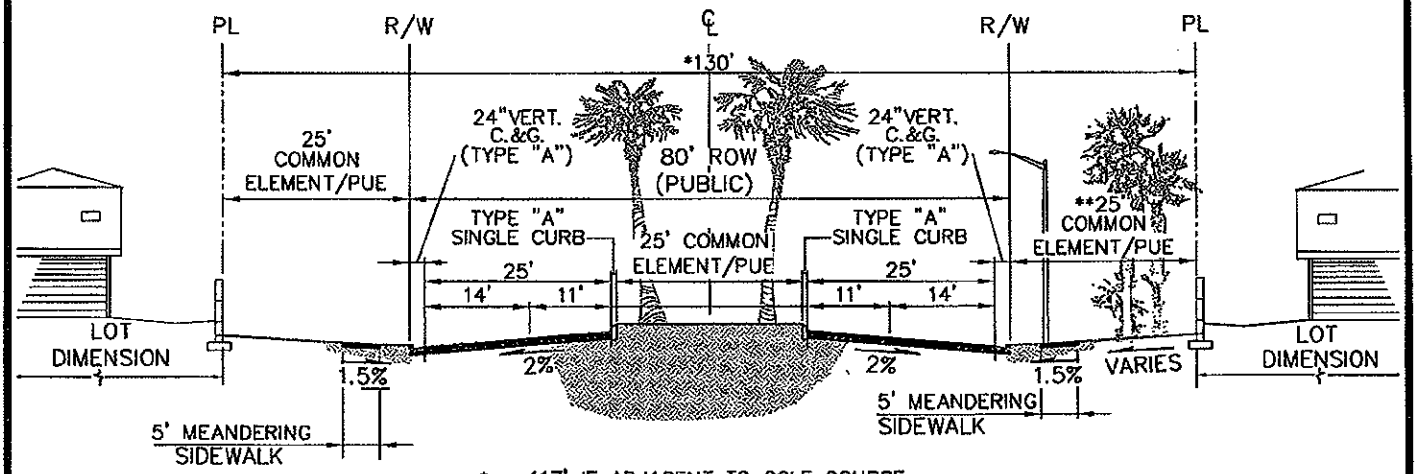
RHODES HOMES ARIZONA, LLC
GOLDEN VALLEY RANCH

Stanley Consultants INC.
5820 S. EASTERN AVENUE, SUITE 200
LAS VEGAS, NEVADA 89119
(702) 369-9396 Fax (702) 369-9793

SCALE: NOT TO SCALE

FIGURE I-G

DATE: 20 DEC 2005
REV:



* – 117' IF ADJACENT TO GOLF COURSE
** – 13' IF ADJACENT TO GOLF COURSE

TYPICAL LOOP RD. #2 STREET SECTION

(PUBLIC) NOT TO SCALE

NOTE: ALL LANDSCAPING/WALKWAYS FROM PL TO PL TO BE MAINTAINED BY MASTER HOMEOWNER ASSOCIATION

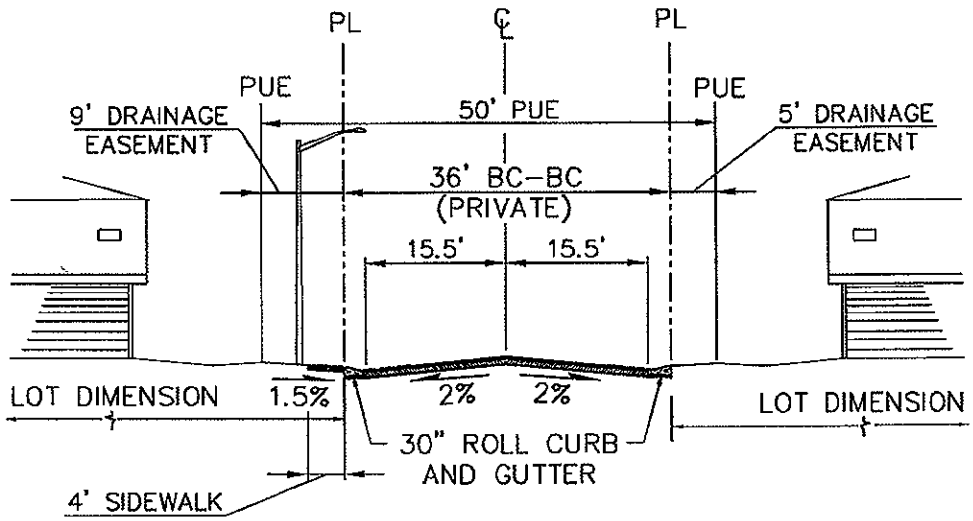
RHODES HOMES ARIZONA, LLC
GOLDEN VALLEY RANCH

Stanley Consultants INC.
5820 S. EASTERN AVENUE, SUITE 200
LAS VEGAS, NEVADA 89119
(702) 369-9396 Fax (702) 369-9793

SCALE: NOT TO SCALE

FIGURE I-H

DATE: 20 DEC 2005
REV:



TYPICAL LOCAL STREET SECTION

(PRIVATE) NOT TO SCALE

NOTE: ALL LANDSCAPING/WALKWAYS FROM PL TO PL TO BE MAINTAINED BY MASTER HOMEOWNER ASSOCIATION

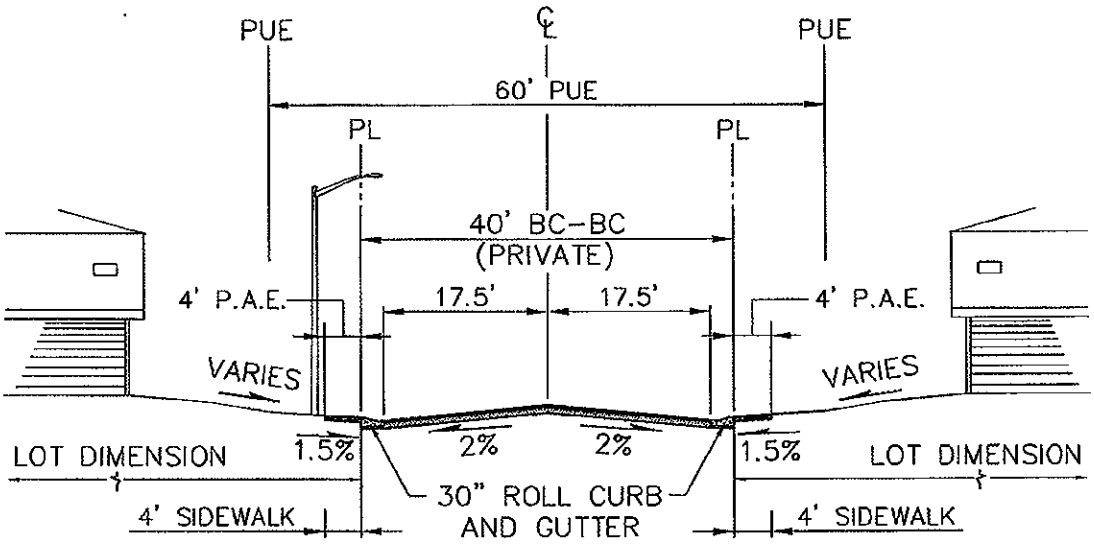
RHODES HOMES ARIZONA, LLC
GOLDEN VALLEY RANCH

Stanley Consultants INC.
5820 S. EASTERN AVENUE, SUITE 200
LAS VEGAS, NEVADA 89119
(702) 369-9396 Fax (702) 369-9793

SCALE: NOT TO SCALE

FIGURE I-A

DATE: 20 DEC 2005
REV:



TYPICAL COLLECTOR STREET SECTION

(PRIVATE) NOT TO SCALE

NOTE: ALL LANDSCAPING/WALKWAYS FROM PL TO PL TO BE MAINTAINED BY MASTER HOMEOWNER ASSOCIATION

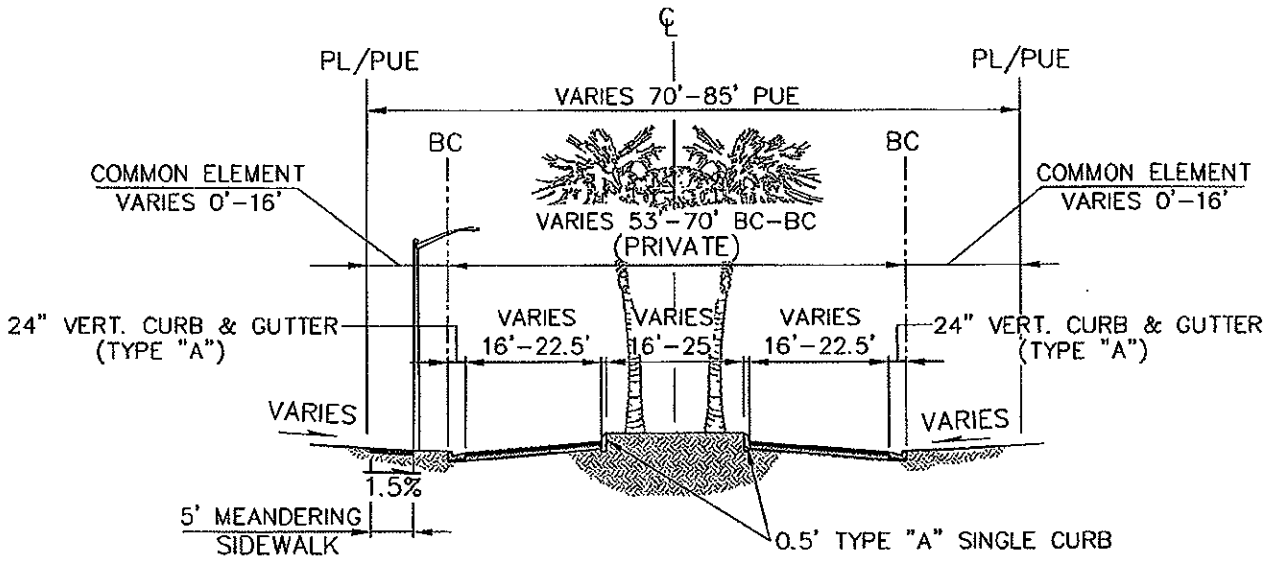
RHODES HOMES ARIZONA, LLC
GOLDEN VALLEY RANCH

Stanley Consultants INC.
5820 S. EASTERN AVENUE, SUITE 200
LAS VEGAS, NEVADA 89119
(702) 369-9396 Fax (702) 369-9793

SCALE: NOT TO SCALE

FIGURE I-B

DATE: 20 DEC 2005
REV:



TYPICAL ENTRY STREET SECTION

(PRIVATE) NOT TO SCALE

NOTE: ALL LANDSCAPING/WALKWAYS FROM PL TO PL TO BE MAINTAINED BY MASTER HOMEOWNER ASSOCIATION

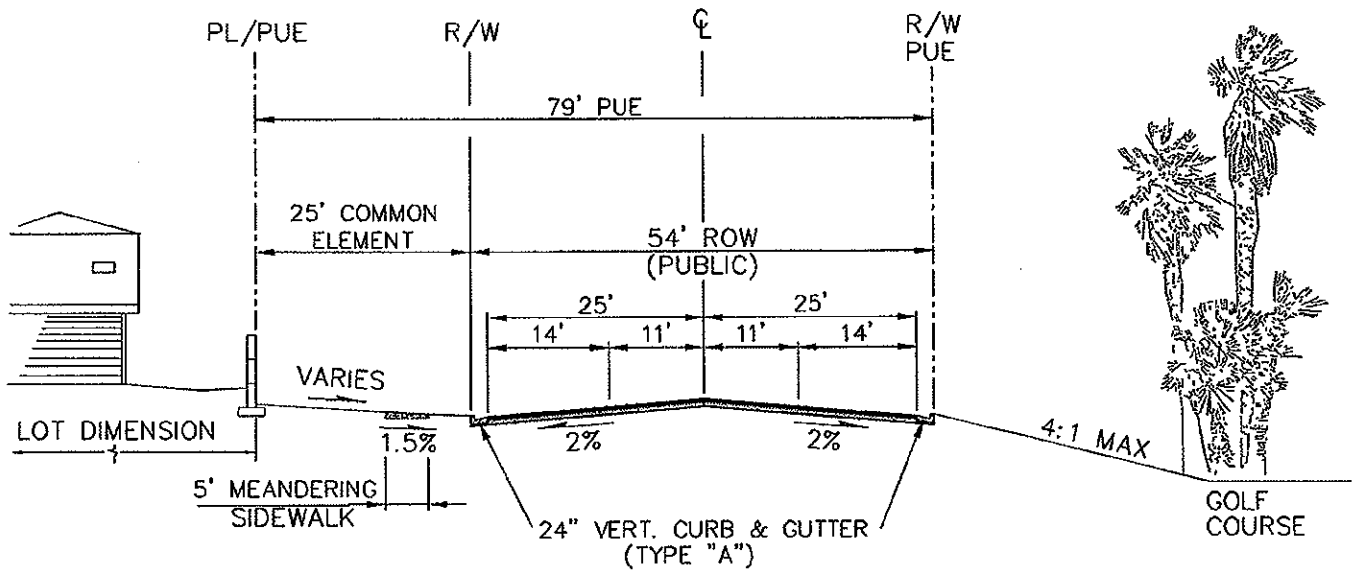
RHODES HOMES ARIZONA, LLC
GOLDEN VALLEY RANCH

Stanley Consultants INC.
5820 S. EASTERN AVENUE, SUITE 200
LAS VEGAS, NEVADA 89119
(702) 369-9396 Fax (702) 369-9793

SCALE: NOT TO SCALE

FIGURE I-C

DATE: 20 DEC 2005
REV:



TYPICAL MINOR ARTERIAL STREET
SECTION FRONTING GOLF COURSE
(PUBLIC)

NOT TO SCALE

NOTE: ALL LANDSCAPING/WALKWAYS FROM PL TO PL TO BE MAINTAINED BY MASTER HOMEOWNER ASSOCIATION

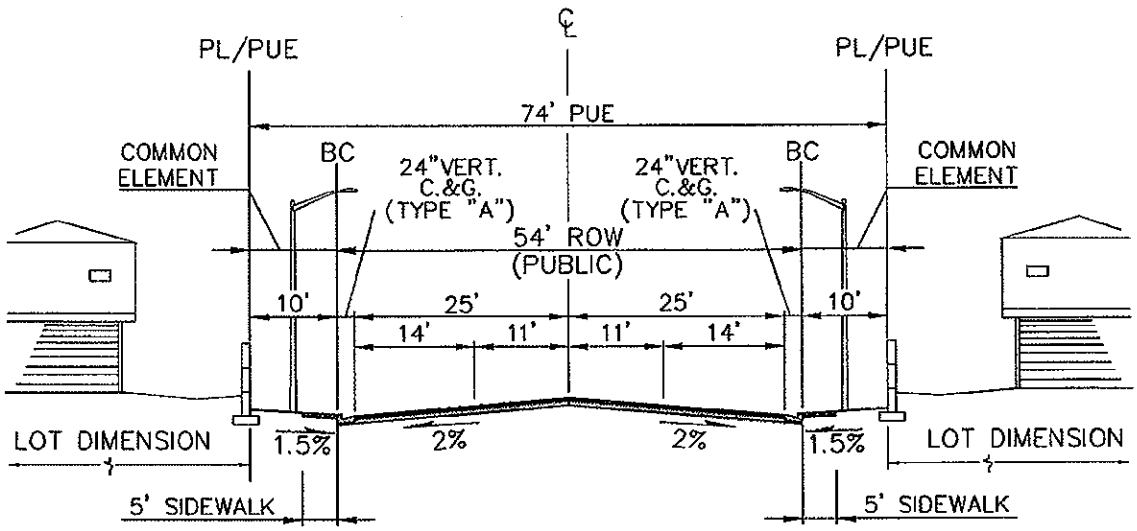
RHODES HOMES ARIZONA, LLC
GOLDEN VALLEY RANCH

Stanley Consultants INC.
5820 S. EASTERN AVENUE, SUITE 200
LAS VEGAS, NEVADA 89119
(702) 369-9396 Fax (702) 369-9793

SCALE: NOT TO SCALE

FIGURE I-D

DATE: 20 DEC 2005
REV:



TYPICAL MINOR ARTERIAL STREET SECTION

(PUBLIC) NOT TO SCALE

NOTE: ALL LANDSCAPING/WALKWAYS FROM PL TO PL TO BE MAINTAINED BY MASTER HOMEOWNER ASSOCIATION

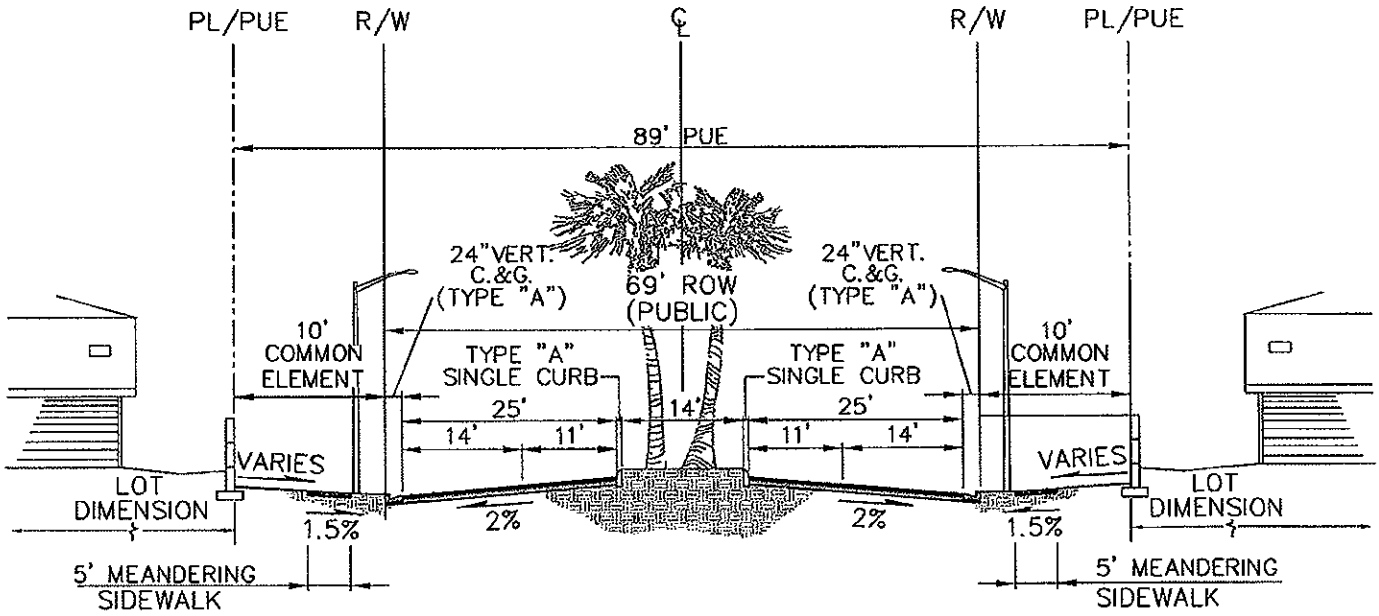
RHODES HOMES ARIZONA, LLC
GOLDEN VALLEY RANCH

Stanley Consultants INC.
5820 S. EASTERN AVENUE, SUITE 200
LAS VEGAS, NEVADA 89119
(702) 369-9396 Fax (702) 369-9793

SCALE: NOT TO SCALE

FIGURE I-E

DATE: 20 DEC 2005
REV:



TYPICAL MINOR ARTERIAL STREET SECTION WITH MEDIAN (PUBLIC)

NOT TO SCALE

NOTE: ALL LANDSCAPING/WALKWAYS FROM PL TO PL TO BE MAINTAINED BY MASTER HOMEOWNER ASSOCIATION

RHODES HOMES ARIZONA, LLC
GOLDEN VALLEY RANCH

Stanley Consultants INC.
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LAS VEGAS, NEVADA 89119
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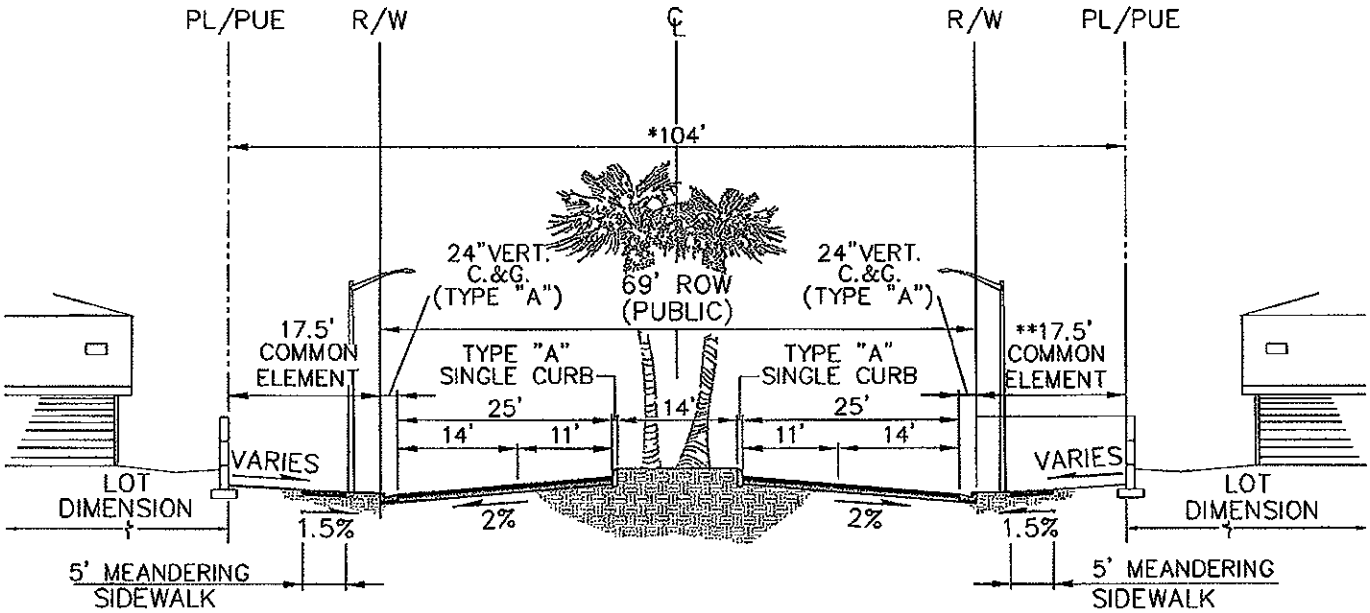
SCALE: NOT TO SCALE

FIGURE 1-F

DATE: 20 DEC 2005
REV:



* – 91' IF ADJACENT TO GOLF COURSE
** – 4.5' IF ADJACENT TO GOLF COURSE

TYPICAL LOOP RD. #1 STREET SECTION

(PUBLIC) NOT TO SCALE

NOTE: ALL LANDSCAPING/WALKWAYS FROM PL TO PL TO BE MAINTAINED BY MASTER HOMEOWNER ASSOCIATION

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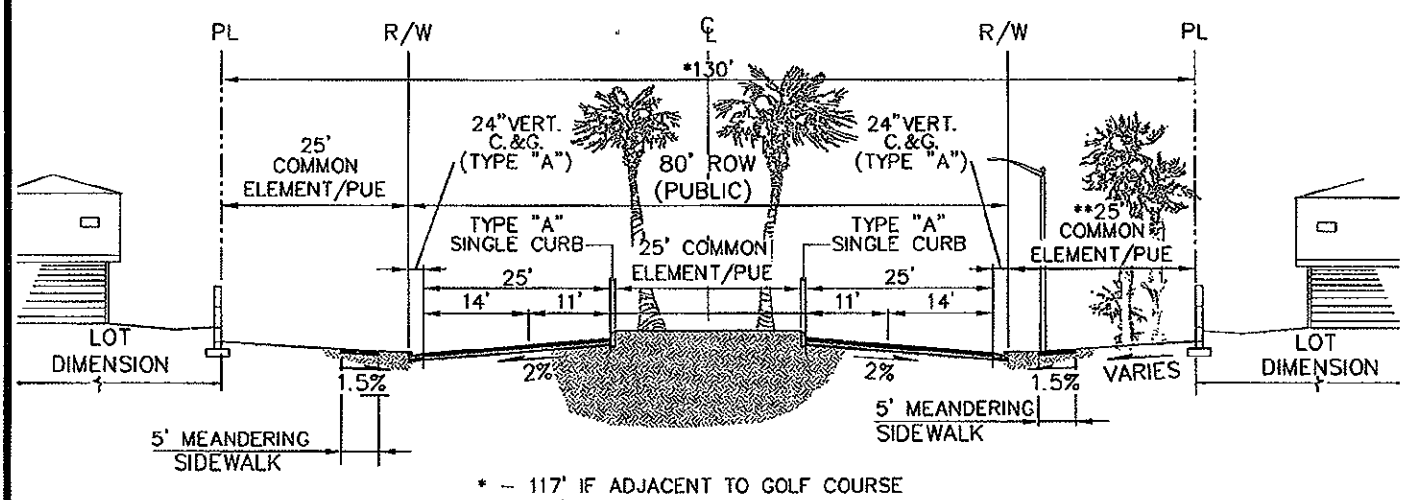
LAS VEGAS, NEVADA 89119
(702) 369-9396 Fax (702) 369-9793

SCALE: NOT TO SCALE

FIGURE I-G

DATE: 20 DEC 2005
REV:



* – 117' IF ADJACENT TO GOLF COURSE
** – 13' IF ADJACENT TO GOLF COURSE

TYPICAL LOOP RD. #2 STREET SECTION

(PUBLIC) NOT TO SCALE

NOTE: ALL LANDSCAPING/WALKWAYS FROM PL TO PL TO BE MAINTAINED BY MASTER HOMEOWNER ASSOCIATION

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GOLDEN VALLEY RANCH

Stanley Consultants INC.
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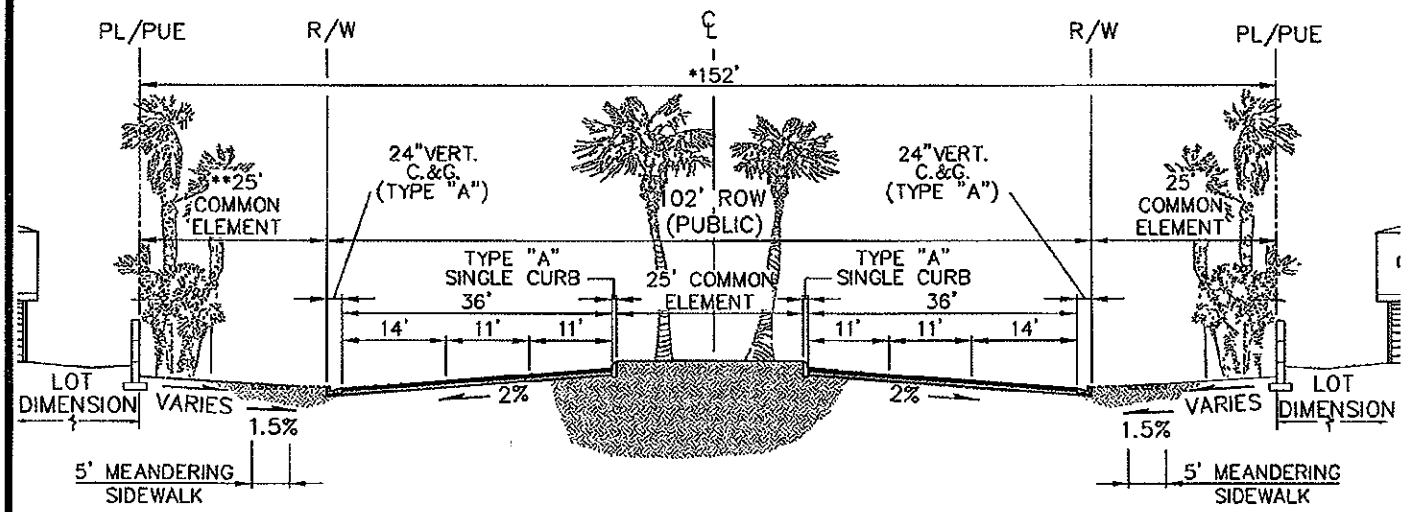
LAS VEGAS, NEVADA 89119
(702) 369-9396 Fax (702) 369-9793

SCALE: NOT TO SCALE

FIGURE I-H

DATE: 20 DEC 2005
REV:



* – 139' IN LOCATIONS ADJACENT TO GOLF COURSE
** – 12' IN LOCATIONS ADJACENT TO GOLF COURSE

TYPICAL MAJOR ARTERIAL STREET SECTION

(PUBLIC) NOT TO SCALE

NORTH OF GOLF COURSE FROM
ROUND-A-BOUT TO SHINARUMP

NOTE: ALL LANDSCAPING/WALKWAYS FROM PL TO PL TO BE MAINTAINED BY MASTER HOMEOWNER ASSOCIATION

RHODES HOMES ARIZONA, LLC
GOLDEN VALLEY RANCH

Stanley Consultants INC.
5820 S. EASTERN AVENUE, SUITE 200
LAS VEGAS, NEVADA 89119
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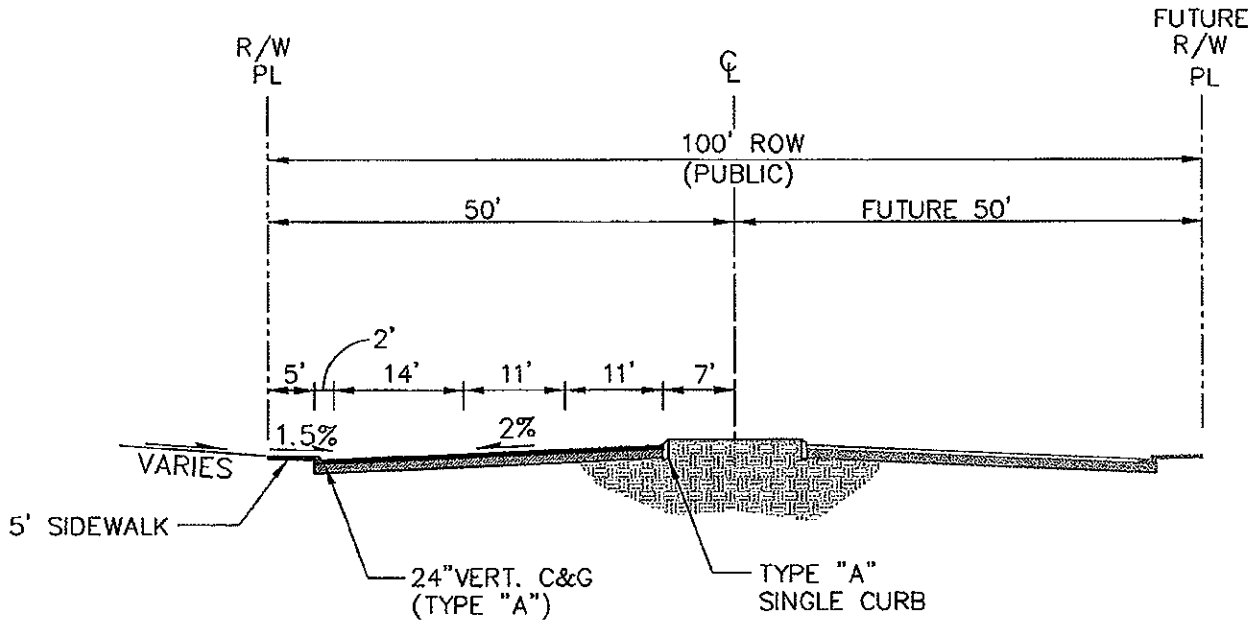
SCALE: NOT TO SCALE

FIGURE I-I

DATE: 20 DEC 2005
REV:



TYPICAL 100' RIGHT-OF-WAY
HALF STREET SECTION

NOT TO SCALE

(PUBLIC)

SECTION LINE ROADWAYS

NOTE: ALL LANDSCAPING/WALKWAYS FROM PL TO PL TO BE MAINTAINED BY MASTER HOMEOWNER ASSOCIATION

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Stanley Consultants INC.
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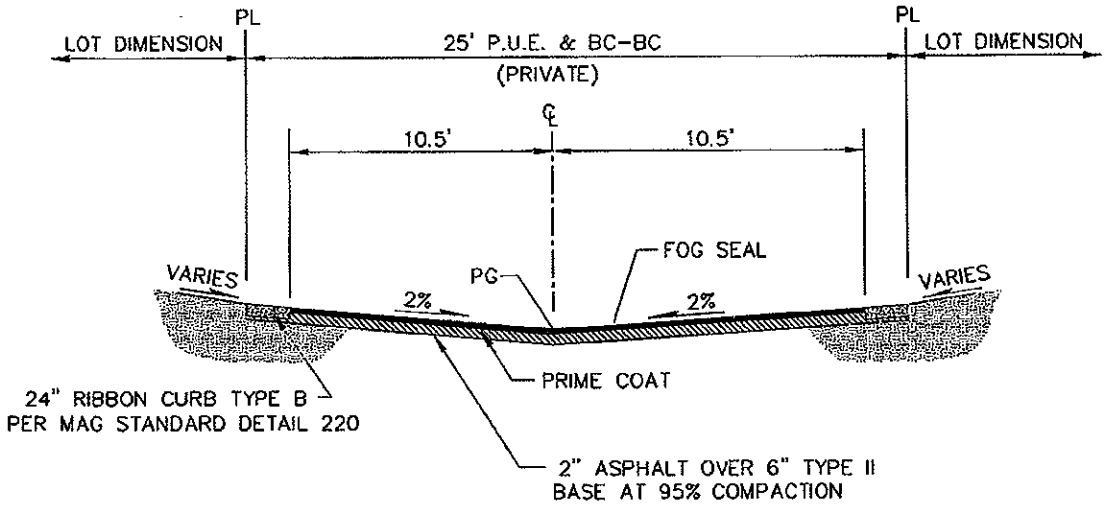
SCALE: NOT TO SCALE

FIGURE I-J

DATE: 20 DEC 2005
REV:



NOTE: FINAL PAVEMENT SECTIONS TO BE BASED ON ADDITIONAL R-VALUE TESTS PERFORMED DURING CONSTRUCTION OF THE ACTUAL SUBGRADE MATERIALS AND TRAFFIC INFORMATION.

TYPICAL ALLEY STREET SECTION

(PRIVATE) NOT TO SCALE

NOTE: ALL LANDSCAPING/WALKWAYS FROM PL TO PL TO BE MAINTAINED BY MASTER HOMEOWNER ASSOCIATION

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Stanley Consultants INC
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LAS VEGAS, NEVADA 89119
(702) 369-9396 Fax (702) 369-9793

SCALE: NOT TO SCALE

FIGURE I-K

DATE: 20 DEC 2005
REV:

City of Mesa
Intersection Layouts

MESA STANDARD DETAILS

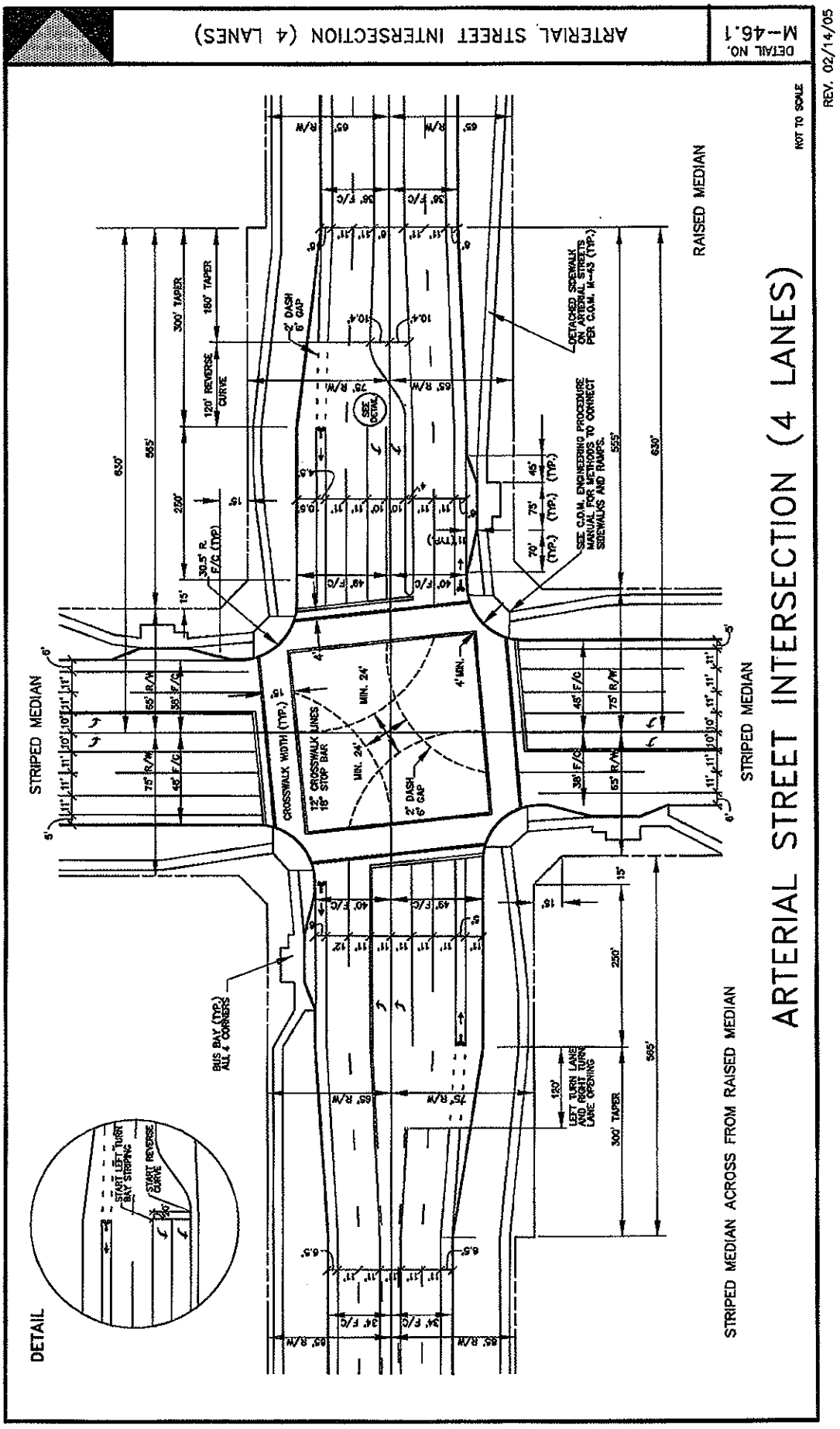
Amendment
to the
Uniform Standard Details

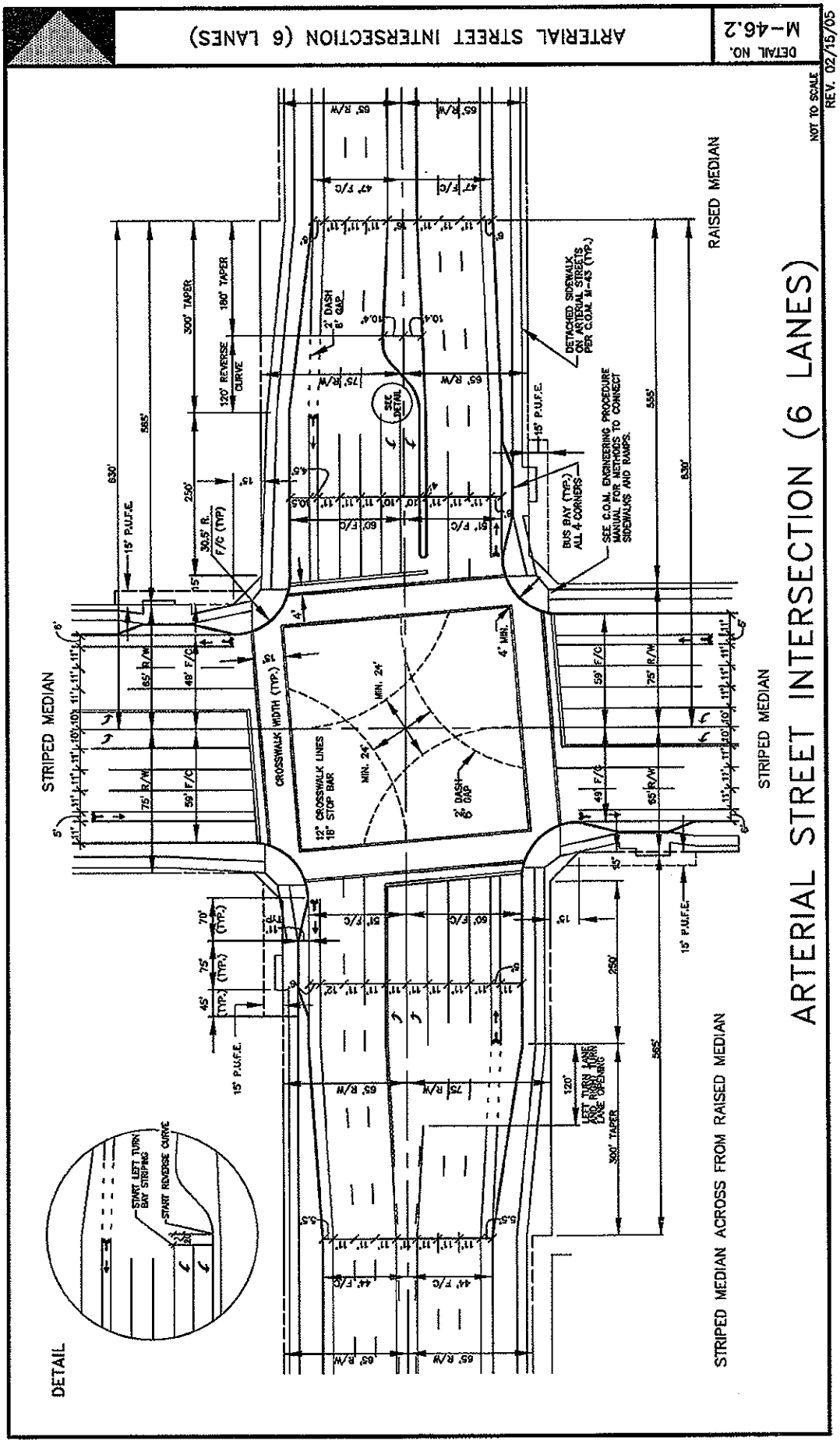
CITY OF **MESA**
Great People, Quality Service!

ENGINEERING

2005

EFFECTIVE DATE March 1, 2005

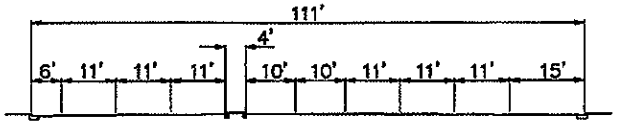

ARTERIAL STREET INTERSECTION (4 LANES)
DETAIL NO. M-46.1
NOT TO SCALE
REV. 02/14/05
RAISED MEDIAN
STRIPED MEDIAN
STRIPED MEDIAN ACROSS FROM RAISED MEDIAN
DETAIL
DETACHED SIDEWALK ON ARTERIAL STREETS PER C.O.M. M-43 (TYP.)
SEE C.O.M. ENGINEERING PROCEDURE MANUAL FOR METHODS TO CONNECT SIDEWALKS AND RAMPS.
CROSSWALK WIDTH (TYP.)
12" CROSSWALK LINES
15' STOP BAR
2' DASH 6' GAP
MIN. 24'
4' MIN.
BUS BAY (TYP.) ALL 4 CORNERS
LEFT TURN LANE AND RIGHT TURN LANE OPENING
300' TAPER
180' TAPER
120' REVERSE CURVE
START LEFT TURN BAY STRIPING
START REVERSE CURVE
SEE DETAIL
630'
565'
250'
150'
65' R/W
75' R/W
48' F/C
38' F/C
40' F/C
34' F/C


ARTERIAL STREET INTERSECTION (6 LANES)
DETAIL NO. M-46.2
REV. 02/15/05
NOT TO SCALE
RAISED MEDIAN
STRIPED MEDIAN
STRIPED MEDIAN ACROSS FROM RAISED MEDIAN
DETAIL
START LEFT TURN BAY STRIPING
START REVERSE CURVE
CROSSWALK WIDTH (TYP.)
12" CROSSWALK LINES
18" STOP BAR
2' DASH 6' GAP
MIN. 24'
4' MIN.
DETACHED SIDEWALK ON ARTERIAL STREETS PER C.O.M. M-43 (TYP.)
SEE C.O.M. ENGINEERING PROCEDURE MANUAL FOR METHODS TO CONNECT SIDEWALKS AND RAMPS.
BUS BAY (TYP.) ALL 4 CORNERS
15' P.U.F.E.
300' TAPER
180' TAPER
120' REVERSE CURVE
LEFT TURN LANE AND RIGHT TURN LANE OPENING
630'
585'
555'
830'
250'
260'
65' R/W
75' R/W
47' F/C
60' F/C
59' F/C
49' F/C
48' F/C
44' F/C

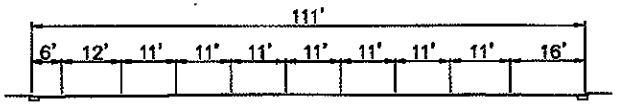
TYPICAL STRIPING CROSS SECTIONS

DETAIL NO. M-46.3

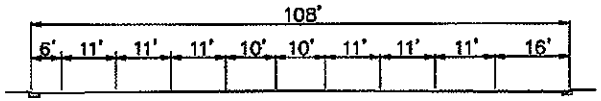
111' AT MAJOR INTERSECTION (RAISED MEDIAN PLUS RIGHT TURN LANE)



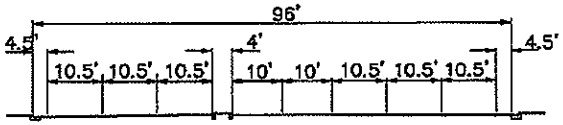
111' AT MAJOR INTERSECTION (NO RAISED MEDIAN PLUS RIGHT TURN LANE)



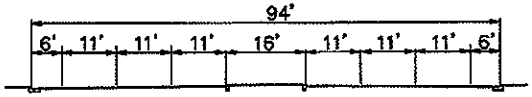
108' AT MAJOR INTERSECTION (NO RAISED MEDIAN PLUS RIGHT TURN LANE)



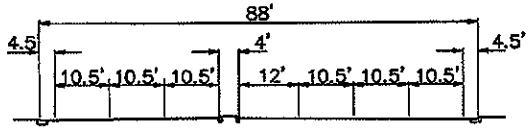
96' ROADWAY (RAISED MEDIAN)



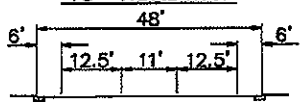
94' ROADWAY (RAISED MEDIAN)



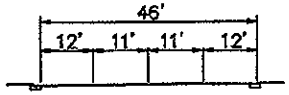
88' ROADWAY (RAISED MEDIAN)



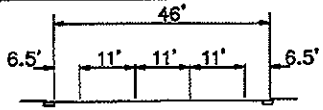
48' ROADWAY



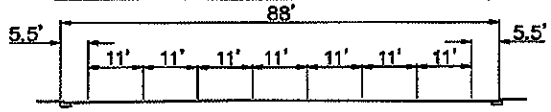
46' ROADWAY (PARKING ON BOTH SIDES)



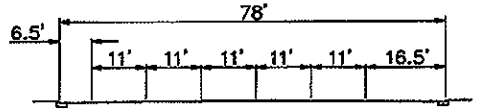
46' ROADWAY (W/LEFT TURN CENTER LANE)



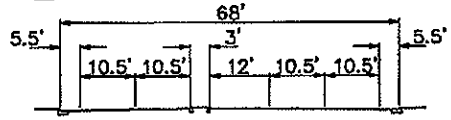
88' ROADWAY (NO RAISED MEDIAN)



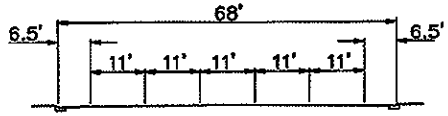
78' ROADWAY (78' STREET PLUS 10' RIGHT TURN LANE)



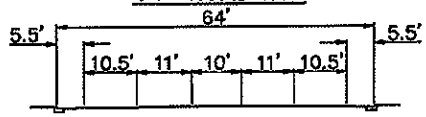
68' ROADWAY (RAISED MEDIAN)



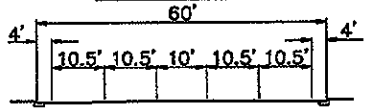
68' ROADWAY (NO RAISED MEDIAN)



64' ROADWAY



60' ROADWAY



REV. 8/17/04